

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

MARCH 4 1961

a rational approach
to cold control



CAPRITON

TABLETS

The combination of

a proven, orally effective sympathomimetic amine,
PHENYLEPHRINE HYDROCHLORIDE

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the time-tested antipyretic, analgesic combination,
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[PART I SCHEDULE 7 (1)]

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The CHEMIST AND DRUGGIST

Volume 175

MARCH 4, 1961

No. 4229

Dangerous Drugs Act

NEW RELAXATIONS EFFECTIVE MARCH 1

THE restrictions affecting acetyldihydrocodeine and propoxyphene (Doloxene) have been relaxed by the Dangerous Drugs Regulations, 1961 (M. Stationery Office, price threepence), which became effective on March 1. The compounds and their salts are now controlled like codeine.

The control of sale and distribution applies only to wholesale dealers. So far as the retail chemist is concerned the substances are not to be dealt with as Dangerous Drugs unless in quantities exceeding 1 lb.

The Regulations have amended the Dangerous Drugs Regulations, 1953, and introduced a new Fifth Schedule, which includes codeine, dionin, pholcodine, dihydrocodeine, acetyldihydrocodeine and propoxyphene and their salts. The new schedule is merely a drafting device. There are no changes in the control of the drugs, such as codeine, that originally came within the scope of Part III of the Dangerous Drugs Regulations. The new Regulations also provide that an agent acting in the transfer of a business and its stock-in-trade will not, merely because the stock includes drugs controlled under the Regulations, require a licence under the Regulations on the ground that he is procuring or offering to procure the drug for another person.

Formaldehyde Lozenges

TEST PRESCRIPTION FINDINGS

THE Pharmaceutical Service Committee of the London Executive Council recently considered the results of a test

prescription calling for twenty-four formaldehyde lozenges. The lozenges were dispensed in a cardboard carton and the Council's analyst reported that the formaldehyde content was 0.0042 gm. whereas the B.P.C. requires 0.0070-0.0107 gm. It was reported that some of the formaldehyde lozenges remaining in the original glass container from which the lozenges for the test prescription had been dispensed had been analysed and found to be satisfactory. Lozenges stored for two weeks in a carton similar to that used when the prescription was dispensed were found to have a formaldehyde content below the required limit and a similar result occurred when a half-full carton of lozenges was stored for three days. The lozenges in the original glass container were analysed two weeks after the original test and no loss of formaldehyde was found. The Pharmaceutical Committee inferred that the chemist had submitted sufficient evidence to show that, when dispensed, the lozenges were satisfactory; the loss of formaldehyde was due to the container used. The Committee recommended that the case should be dismissed. The Committee noted that the British Pharmaceutical Codex stated formaldehyde

lozenges should be stored in well closed containers which prevented access of moisture, in a cool place, and that the lozenges were liable to deterioration on storage. The British National Formulary 1960 required tablets, cachets and capsules to be kept and dispensed in well-closed containers which gave adequate physical protection. Where it was essential for the preparation to be dispensed in airtight containers that was stated in the monograph. Those instructions did not refer to lozenges, and the monograph for formaldehyde lozenges in the British National Formulary did not make provision as to the type of container to use. The Committee considered that the facts disclosed in the case clearly indicated that "formaldehyde lozenges should be dispensed in well-closed containers and not cardboard cartons as is apparently the present pharmaceutical practice."

Nielsen Drug Index

INCREASED TURNOVER FIGURES

THE total average weekly turnover obtained by retail chemists in Great Britain during the November 1 period was £4,693,000, an increase of 7 per cent. over the corresponding period of the previous year. That information is given in the current Nielsen Drug Index retailers' report. The average weekly cash sales in retail pharmacies were:—Multiples, £337; large independents, £282; medium independents, £154, and small independents, £82. Compared with the corresponding figures for 1959 the increased percentage changes were:—Multiples, 3.9, and all independents, 2.7. The average weekly National Health Service payments to large independent shops fell from £146 in September 1960 to £142 in November 1960. The multiple pharmacies suffered similarly, their receipts falling from £124 to £122. The medium independents improved during the same period from £91 to £92, whilst the small independents received the same, £56. The multiple



EDINBURGH GOLFERS AND THEIR GUESTS: A group of members and friends of the Edinburgh Chemists' Golf Club photographed at the Club's annual dance in Edinburgh recently. Near the centre is the captain (Mr. J. W. Martin).

pharmacies dispensed 33.3 per cent. of the National Health Service prescriptions, each shop dealing with an average of 1,628 prescriptions per month during September, the respective figures for the independent pharmacists being 66.7 per cent. and 1,071.

N.H.S. Debate

STATEMENT BY A MANUFACTURER

THE following statement was distributed to Members of Parliament by Cyanamid of Great Britain, Ltd., on February 27:—

"A number of allegations about the pharmaceutical industry in Britain were made during the recent National Health Service debate in the House of Commons. Some of those allegations, which were widely reported and formed the basis for Press and other comment, concerned this company. Because it appears that a distorted picture has been given we should like to take the opportunity to present the following information with the objective of putting the facts in a truer perspective. They are as follows:

(1) In common with subsidiaries of other American pharmaceutical firms operating in Britain, Cyanamid's Lederle division has been accused of making unduly large profits. In considering figures published it should be emphasised that these relate not only to our pharmaceutical activities but also to our interests in the agricultural and general chemical fields. The fact that published results of the United Kingdom company show a high level of profit to capital employed is meaningless without full consideration of the benefits which accrue to the National Health Service from massive American research, only a relatively small proportion of which is charged in the British company's accounts. Cyanamid's overall research expenditure in 1960—more than £9 millions—exceeded that of the entire United Kingdom pharmaceutical industry by more than 50 per cent. Results of the parent company—American Cyanamid—show a ratio of profit to capital employed comparable with British industry as a whole.

(2) We have already announced that, from yesterday, we have lowered the prices of our antibiotics by 12 per cent., thus saving the National Health Service an estimated £725,000 a year. Including this latest voluntary price cut the price of our antibiotics has been reduced by 34 per cent. since 1951 in spite of regular increases in the cost of labour and raw materials.

(3) The decision to reduce prices was made before the National Health Service debate, and it is unfortunate that this voluntary action has been misrepresented as arising from pressure in Parliament and from attacks in the Press.

(4) Furthermore, statements made about promotional methods during the debate were wildly inaccurate. One speaker claimed that an American firm was estimated to have 600 representatives calling on doctors. As one of the largest pharmaceutical firms of American origin in Britain we employ seventy representatives.

(5) Cyanamid's investment in Britain increases year by year and will continue. It is this company's desire to co-operate fully with the Ministry of Health in the operation of the Voluntary Price Regulation Scheme to determine fair and reasonable prices."

Treasury Orders

CHANGES IN IMPORT DUTIES

THE Treasury has made the Import Duties (Temporary Exemptions) (No. 2) Order, 1961 (S.I. 1961, No. 280), which revokes, with effect from March 1, 1961, the temporary exemption from import duty of the following chemicals: 1:1 - dimethoxy - 2 - phenylethane; *n*-decaldehyde; 2 - methyl - *n* - undecaldehyde; *n*-nonaldehyde; *n*-octaldehyde; *n*-undecaldehyde; undec-10-enaldehyde; and γ -undecolactone. It also revokes, with effect from April 1, the temporary

exemption of cyclohexanone.—Another Order made by the Treasury (published as S.I., 1961, No. 278), increases the rates of drawback of import duty on imported linseed oil used in the manufacture of a number of specified exported goods.

Influenza Epidemic

"PEAK REACHED"

ACCORDING to the Ministry of Health the number of deaths from influenza recorded in England and Wales during the week ended February 11 was 1,393 as compared with 1,221 for the week previous. A Ministry spokesman said, however, that the increase in the number of influenza deaths for the week ended February 18 was much less than during the preceding three weeks and added "It would appear that the peak of the 'flu epidemic has been reached."

SCOTTISH NEWS

Rateable Values Rise

EDINBURGH'S INDUSTRY HIT

EDINBURGH's total rateable value is reported to have jumped by £3,000,000 to £11,761,219—an increase of nearly 40 per cent. The revised valuations were published on February 20. Local industry has lost the benefits of de-rating and, in some cases, industrial valuations have increased four or five times. The rateable value of the Westfield Road works of Duncan McGlashan, Ltd., has risen nearly eightfold, the new estimated figure being £421 as against £57. The valuation of T. & H. Smith, Ltd., has increased from £3,427 to £8,817.

IRISH NEWS

THE REPUBLIC

Drug Federation

WHOLESALE'S DINNER

THE new chairman of the Wholesale Drug Federation of Ireland (Mr. M. G. Durcan) presided at the Federation's annual dinner in Dublin on February 8. Over fifty guests were present. The toast of "the Federation" was proposed by Mr. J. D. Coleman (registrar of the Council of the Pharmaceutical Society of Ireland) in the absence of Mr. F. Loughman, T.D. (president), who was indisposed. MR. COLEMAN said wholesalers would be interested to know that since the last dinner the Society had decided to introduce a three-year university course. That would have a tremendous effect on the sales section of pharmacy. He said that in recent years there had been a shortage of trained material in industry, and believed a certain proportion of the graduates, having got their degree, would enter industry to its benefit. He thanked the wholesalers who had contributed to the College of Pharmacy Fund and others who had promised to support the Fund. Replying, MR. DURCAN said the Federation was unique and members looked forward to the annual dinner which gave them an opportunity of renewing old acquaintances and meeting new friends. Proposing the toast of "Our Guests,"

MR. A. HUGHES (St. Dalmas, Ireland, Ltd.), said he regretted the absence of Mr. Loughman, but that the Society was fortunate in having such an able deputy as Mr. Coleman. MR. A. C. HENNESSY (president, Irish Drug Association), replying, said the Federation had started largely through efforts of a few members of the Irish Drug Association who had thought it a good idea to bring members together more closely. Federation members were good friends of the Association, and on the whole, both the retail and wholesale branches of pharmacy had benefited by its existence.

Ulster Chemists

ASSOCIATES' DINNER-DANCE

THE annual dinner-dance of the Associates' Section of the Ulster Chemists' Association was held in Belfast on February 9. Upwards of 200 guests (representative of all branches of pharmacy in Northern Ireland) were received by Mr. R. J. Davidson (chairman). Principal guests included Mr. A. Templeton (president, Pharmaceutical Society of Northern Ireland), and Mrs. Templeton, Miss A. E. Strachan (secretary of the Ulster Chemists' Association), Mr. T. G. Rutledge (chairman of the local Pharmaceutical Committee) and Mrs. Rutledge. Mr. G. S. Archibald acted as Master of Ceremonies.



ASSOCIATES AND THEIR GUESTS: A group at the annual dinner and dance of the Associates' Section of the Ulster Chemists' Association in Belfast recently. Standing: Messrs. A. Templeton (president, Pharmaceutical Society of Northern Ireland), Robert Davidson (chairman, Associates' Section) and T. B. Rutledge (chairman, Local Pharmaceutical Committee). Seated: Miss A. E. Strachan (secretary, U.C.A.), Mrs. Templeton and Mrs. Rutledge.

IRISH BREVITY

THE following officers of the Wholesale Drug Federation of Ireland were elected for the coming year at the annual meeting in Dublin on February 8: Chairman, Mr. M. G. Durcan; Vice-chairman, Mr. R. Richmond; Committee, Messrs. A. D. Davidson (May Roberts (Ireland), Ltd.), H. I. Hindley (Wigglesworth, Ltd.), J. P. Holland (P. C. Cahill & Co., Ltd.), P. J. Hooper (Ayrton, Saunders & Co. (Dublin), Ltd.), S. McCauley (Irish Pharmaceuticals, Ltd.) and C. J. Staunton (Evans Medical (Ireland), Ltd.).

NEWS IN BRIEF

MR. N. Hart, M.P.S., 72A Evesham Road, Headless Cross, Redditch, Worcs., has successfully applied to the Redditch Licensing Justices for an excise licence to sell wines and spirits.

A MOTION has been tabled in Parliament in favour of a simplified system of relieving "persons of limited means" of Health Service charges to avoid applications to the National Assistance Board.

A REMINDER to commercial vehicle owners and their drivers that lamps of vehicles are required to be in working condition by day as well as by night was issued recently by the Traders' Road Transport Association.

THE Ministry of Agriculture has warned farmers that seed dressings containing dieldrin, aldrin or heptachlor can kill birds that eat dressed seed and may prove fatal to animals that eat the bodies of such birds.

UNDER a revised rota system for Loughborough, Leics, the two chemists on rota duty will open on only five evenings a week, excluding Saturday and Sunday. On Sundays they will open for one hour in the morning.

LIVERPOOL Corporation finance committee has considered a report by the town clerk indicating that the ninety-ninth British Pharmaceutical Conference is being held in Liverpool, September 3-7, 1962. The committee has agreed to entertain those who attend the conference at a reception in St. George's Hall.

BECAUSE of the increase in prescriptions caused by the influenza epidemic, the London Executive Council has warned chemists that some may be receiving their National Health Service payments late for a month or two. Prescriptions submitted by contractors for pricing in England during January rose to 21,800,000, or 30 per cent. above average.

THE Import Duties (Temporary Exemptions) (No. 1) Order, 1961, published as S.I. 1961, No. 129, lists about 100 chemicals which have been temporarily exempted from import duty from February 1 until October 1. Among the items affected are potassium nitrite, silver protein and calcium gluconate galactogluconate. [Amended notice.]

At a luncheon of the Proprietary Association of Great Britain in London on February 9, Mr. S. W. Day (chairman of the executive committee of the Association) emphasised the Association's efforts to ensure that "home medicines" of the highest quality were presented to the public through advertising of a responsible nature. He assured members that the executive committee would at all times attempt to safeguard the interests of the public at large and the industry it served.

SPORT

GOLF.—The annual four-day outing of the IRISH CHEMISTS' GOLFING SOCIETY is being held in Kossilare, commencing May 14, not at Dun Laoghaire as previously stated. The first outing of the season is being held at Dun Laoghaire on March 22.

TOPICAL REFLECTIONS

By Xrayser

The debate

"Myself when young," said Omar, "did eagerly frequent doctor and saint, and heard great argument about it and about: but evermore came out by the same door as in I went." Circumstances compelled me to do my frequenting through the columns of "Hansard," and I feel, after reading the proceedings in connection with prescription charges, that even the door has changed since the days of the Persian poet, being replaced by a revolving one that makes the senses reel. For example, the Secretary of State for Scotland (Mr. John MacLay) presents me with this profound statement: "Listening to the speeches we have heard, one would imagine that the chronic sick were in need of prescriptions with the utmost regularity. They need them regularly, but not with the utmost regularity." Then Mr. Edward Gardner (Billerica) said: "Because of these prescription charges, and because of the efficient way in which he (the Minister) proposes to run the Health Service and improve it to fulfil its destiny, he is able to produce plans for building hospitals." If we overlook, for the moment, the fact that *plans* are not buildings, or operating theatres, or beds or pharmaceutical departments, we must still ask whether the country is in such dire straits that it can look only to the domiciliary sick for the money needed for improvement in the hospital service. Sir Hugh Linstead, in his contribution, faithfully reported the objections he had received in his capacity as Secretary of the Pharmaceutical Society, without managing to convey that he was in wholehearted agreement with those who had supplied the information. But Mr. James H. Hoy (Edinburgh, Leith) owes Sir Hugh an apology. Mr. Hoy referred to the Secretary of the Pharmaceutical Society, who had said that he had received representations from chemists all over the country expressing grave doubts about the wisdom of imposing the charges. He had no doubt that the hon. Member for Putney would go into the Lobby at the Government behest. He was wrong. Sir Hugh took no part in the division on that particular occasion.

Correspondence

The correspondence columns of newspapers and periodicals provide an outlet for material which, on occasion, if kept pent up, would do irreparable damage to the writer. I find such columns of absorbing interest in whatever publication I pick up, and last week's contributions on p. 177 are no exception. The feelings of "Outraged" may be judged from his pseudonym, and my surprise is that there are so few who feel as he does or, rather, so few who take the trouble to avail themselves of the catharsis afforded at such low cost. Time was when subjects of considerably less consequence filled three pages. The outlet may also be made the occasion for the unostentatious display of British phlegm. I recall moments of acute crisis in the affairs of the nation in 1940 when matters such as the night habits of the tawny owl and the origin of bishops' gaiters engaged the attention of some who might never see bird or man again in this life. But the correspondent who is outraged is right. We are not angry enough, and such acceptance leads to (and stems from) complacency in the leadership.

Distinctive

It may be that few people have the artistic perception of Mr. John Betjeman, from whose *Daily Telegraph* article you quote on p. 190, but his appreciation of the pharmacy in Clifton Mall, and his description of what the older generation of pharmacists can remember as general and not exceptional, must occasion feelings of regret that modern life has swept away distinguishing characteristics of the past. I have watched the change as one after another has succumbed to modernisation, frequently with a change of ownership, and I have regretted the disappearance of the carboys and the shop rounds, objects of reverence to an earlier age. They do not seem to fit into today's concept of pharmacy, and pharmacy is not the better for their passing. They were a symbol and a matter for personal pride, but I am told they do not make money.

DEBATE ON N.H.S. CONTRIBUTIONS BILL

(Concluded from THE CHEMIST AND DRUGGIST, February 25, p. 172)

MR. MAURICE EDELMAN referred to the announcement that the Cyanamid Co. of Great Britain had decided to reduce certain prices from February 27. Members might welcome the news without further analysis. When the Health Service was introduced the company was paying nothing to its American parent company, but in 1946 it repatriated to America £1,400,000 profit from the National Health Service. In 1948 the company made a trading profit of £45,000, but in 1960 the figure had risen to £3 millions. Eli Lilly & Co. had raised their net profit from £100,000 to £944,000 in this country. In 1948 Merck, Sharp & Dohme made a profit of £44,000. In 1960 its profits had risen to £1½ million. The American parent company received a record £800,000 from the profit made in this country. The Pfizer company, which commenced in Britain as recently as 1953, produced a first trading profit of £12,000, but by 1957 its profits had gone up to £1½ million.

MR. JAMES H. HOY criticised Sir Hugh Linstead who, after saying that chemists had expressed doubts of the wisdom of imposing the charges, would no doubt support the Government in the division lobby.

More In Than Out

COLONEL SIR TUFTON BEAMISH declared that he had a direct interest in the pharmaceutical industry because he was on the board of the British subsidiary of an American firm. He stated that it was absurd to relate profit to nominal capital, as the Comptroller and Auditor General did. He did not wish to defend American manufacturers that had been attacked, but it was a fact that in America in 1960 more than 150 million dollars was spent on research. He believed that the American pharmaceutical companies had invested in Britain more than they had taken out. It should not be overlooked that the drug bill had borne a constant relationship to the total cost of the National Health Service in the past ten years. The cost of the pharmaceutical service had remained constant at between 0.38 per cent. and 0.40 per cent. of the national income. The Board of Trade wholesale price index in pharmaceutical preparations rose by only 1.4 per cent. in the five years 1954-59. During the same five years the index for all manufactured products had risen by eight times as much. "That is something of which the industry ought to be proud, not something for which it should be abused. If the cost of prescribed drugs were really excessive in this country per head of the population, it would be high here in comparison with other countries. So far as I can ascertain from considerable research, it may be the lowest in the world, and it is certainly one of the lowest." Sir Tufton believed that, on the whole, the pharmaceutical industry had done a fine job for the country which, translated into terms of human happiness and the improvement of health, was impossible to assess.

Replying to the debate, MR. ENOCH POWELL (Minister of Health) said that the Government did not regard the regulations as a substitute for action to ensure the country obtained value for money for the gross cost of the Pharmaceutical Service. Two aspects had to be looked at at the same time. One concerned the prices of drugs and the other their prescribing. As for prices, the new voluntary price regulation scheme was in itself a substantial improvement over its predecessor. It opened the way to continuing negotiations, some of the first fruits of which had been reductions in the cost of some Cyanamid drugs. On the pre-

scribing side he agreed with the authoritative analysis of Sir Hugh Linstead. If, as had been alleged, prescription charges were a barrier preventing people from obtaining treatment, how came it that the number of prescriptions dispensed in the present financial year was greater than the number dispensed in the last year before the 1956 charge, and in the last year before the 1952 charge, "bearing in mind the fact that undoubtedly, following the 1956 charge, there was, as there was intended to be, an increase in prescribing for longer periods for the chronic sick." The Bill was also considered in Committee on February 23, when the Opposition renewed its delaying attacks often by raising points of procedure. The debate on Clause 1 of the Bill lasted twelve hours.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

MR. J. ARBUTHNOT asked the Minister of Health if he would break down the cost of the Pharmaceutical Services paid for by the National Health Service in the year ended March 31, 1959.

MR. ENOCH POWELL (Minister of Health) in a written reply on February 22, gave the following information for England and Wales:

"Payments to dispensing doctors for services and for drugs, appliances and dressings supplied	2,300,000
Payments to chemists and appliance contractors in respect of:—	
(a) Dispensing fees and rota services	12,750,000
(b) Oncost allowances	10,430,000
(c) Allowances for containers	1,370,000
(d) Cost of appliances and dressings	2,080,000
(e) Cost of prescriptions specifying drugs by standard names ..	9,180,000
(f) Cost of prescriptions specifying drugs by proprietary names ..	30,450,000
	68,560,000

Notes:

1. Payments to chemists at (a) and (b) above together constitute payments for overheads, professional services and profits.

2. The total of payments at (d), (e) and (f) includes an estimated sum of £630,000 in respect of purchase tax.

3. Wholesalers' margins are estimated to account for between £5½ million, and £6½ million of the total of the payments at (d), (e) and (f); a more precise estimate cannot be made.

4. It is not possible for 1958-59 to state what part of the payment at (e) relates to prescriptions dispensed in proprietary form."

Prescription Charges

MR. G. THOMAS asked the Minister of Health which medical associations he had consulted before raising the prescription charge by one shilling per item, and what advice he received. MR. ENOCH POWELL, in a written reply on February 20, stated "None."

MR. HECTOR HUGHES was informed by MR. ENOCH POWELL in a written answer on February 27, that between eight and nine hundred individuals and organisations had submitted written protests against the proposed increases in National Health Service charges.

MR. P. BROWNE asked the Minister of Health if he would consider introducing a prescription form of a separate colour for use by the chronically sick and the aged, which would not attract a charge when presented to

the chemist. MR. POWELL in a written reply on February 27, said he did not consider that the task of assessing need or awarding exemption could properly be placed on the doctor.

Estimated Decrease in Prescriptions

MR. G. THOMAS asked the Minister of Health on February 13 what reduction in the number of prescriptions he expected as a result of the doubled charge per item. MR. POWELL said his estimates would be based on a 2 per cent. reduction. The principal factor was the elimination of prescriptions under two shillings.

Dispensing Doctors

MR. L. A. PAVITT asked the Minister of Health how many doctors in the Health Service dispensed for their own patients, and how many items were so dispensed in each of the past three years. MISS E. PITT (Parliamentary Secretary, Minister of Health), in a written reply on February 20, stated "about 2,500 in England and Wales. The number of items probably exceeds 10 millions."

Hospital Costs

MR. ARBUTHNOT asked the Minister of Health how much of the £383 millions which represented the cost of hospitals and specialists, in the year ended March 31, 1959, was in respect of the cost of drugs to hospitals. In a written reply on February 22, MR. ENOCH POWELL stated, "A little over £10 millions."

In a written answer on February 21, Mr. J. J. Maclay (Secretary of State for Scotland) informed Mr. W. Hamilton that between 1949-50 and 1959-60 the cost of the hospital and specialist services in Scotland increased by nearly £26 millions, of which approximately £14.5 millions were accounted for by increased salaries and wages, and approximately £6 millions by increased prices for supplies and services.

MR. W. HAMILTON asked the Minister of Health to what extent the increased expenditure on the National Health Service in the last ten years had been due to increased salaries and wages, and increased costs, respectively. MR. ENOCH POWELL, in a written reply on February 20, indicated the information

was only available for the hospital service in England and Wales, and was as follows:

Hospital Service, England and Wales

	£ millions
Increase in expenditure, 1949-50 to 1959-60	203
Due to increases in salary and wage rates	108
Due to increases in price levels	49

Drug Advertisements on TV

On February 8 Mr. C. MAYHEW asked the Postmaster General what consultations he had had with the Independent Television Authority with a view to banning drug advertisements on independent television forthwith. Mr. BEVINS: "None."

Mr. MAYHEW: The British Medical Association has now confirmed the suspicions of many viewers by stating that a number of medical advertisements on ITV are bogus and misleading, and by recommending a ban on drug advertising on that medium. Why, when you have power to stop this profitable abuse, do you constantly aid and abet it?

Mr. BEVINS: I am well aware of the advice which the B.M.A. has put to the Pilkington Committee. It is a matter for that Committee to consider and not for me, but in fairness I should point out that the I.T.A. is governed by the advice of its Advertising Advisory Committee, which includes representatives not only of the B.M.A. but of the British Dental Association, the Pharmaceutical Society and the Ministry of Health. The I.T.A. has repeatedly made it clear to the members of that Committee that, if they feel that the standards of advertising are being infringed, they should say so to the I.T.A.

Poison Centres

DR. D. JOHNSON asked the Minister of Health, on February 27, if he would establish poison centres for the purpose of providing information in an emergency arising from unusual types of poisoning. Mr. ENOCH POWELL stated that a report on the matter and other related topics from the standing Medical Advisory Committee was at present under consideration.

Teaspoons

Mr. N. DODDS asked the Minister of Health whether, in view of the varying sizes of teaspoons, he would give instructions that the specific amounts to be taken should be stated on bottles of N.H.S. medicines carrying a warning that it was dangerous to exceed the stated dose. Miss E. PITT (Parliamentary Secretary, Ministry of Health) on February 13 refused, stating that few patients had appropriately graduated measures, and inaccuracies in using them might be as large as variations in the size of teaspoons. Mr. DODDS asked if Miss Pitt was aware that, with the different sizes of teaspoons, it was possible that one person's dose might be two, three or even more times that of another's? If there were a notice on the bottle saying that it was dangerous to exceed the stated dose, did not the position he had outlined make nonsense of the notice? If so, could something be done to tidy it up. Miss

PITT pointed out that the notice to the effect that it was dangerous to exceed the stated dose did not appear on any prescriptions dispensed under the National Health Service. It appeared on proprietaries in certain cases which included Dangerous Drugs. "In any event, if a standard measure were available there would always be the individual who put in less than the appropriate amount and there would always be somebody who would contrive to overfill the measure, especially with a heavy liquid." Mr. A. WOODBURN: "Is there any standard measure called 'a teaspoon' which is recognised in medical circles?" Miss PITT: "I believe that there is a standard measure, though it is not readily available."

COMPANY NEWS

Last year's figures in parentheses

JEYES SANITARY COMPOUNDS, LTD.—Mr. P. H. Dixon has been elected to the board.

A. BOAKE, ROBERTS & CO. (HOLDING).—Group profit for thirty-nine weeks ended December 25, 1960, £388,533 (£458,275 for year ended March 27, 1960). Ordinary dividends nil (£58,672).

FISONS, LTD.—The company has acquired a trade investment worth just over £1 million in the Spencer Chemical Co., an American fertiliser firm with a New York Stock Exchange valuation of about £35 millions.

RENTOKIL GROUP, LTD., and THOMAS HARLEY, LTD.—An offer by Rentokil Group of 41s. per share to the Ordinary shareholders of Thomas Harley, has received 100 per cent. acceptance.

W. J. BUSH & CO., LTD.—Mr. J. F. G. Wynne, B.Sc., has joined the board as technical director in succession to Mr. H. W. Vernon. Mr. Wynne in recent years has been manager and chief chemist of the company's Widnes works.

RIKER LABORATORIES, LTD.—Mr. E. A. Burfoot, B.Sc., M.P.S., F.R.I.C., has been appointed works director; Mr. T. A. B. James, A.C.W.A., A.I.A.C., administrative director, and Mr. R. W. Richards, B.Pharm., F.P.S., sales director.

FARBENFABRIKEN BAYER, A.G., Leverkusen.—Dealings in the issued share capital of the company comprising D.M. 735 millions (£63 millions) in one-class shares of various denominations, the smallest being D.M. 100 are expected to start on the London Stock Exchange on March 6.

PFIZER, LTD.—Mr. Philip V. Colebrook (managing director) has been appointed chairman of all companies within the Pfizer group. He replaces Mr. Richard C. Fenton who has been appointed an operations vice-president of Pfizer International, with headquarters in New York and with responsibility for the company's operations in Europe, the Middle East, Africa and Canada.

STERLING DRUG INC., New York.—About 39 per cent. of the company's 1960 sales were in foreign markets. "The scope of possibilities for foreign drug business is tremendous,"

said Dr. J. Mark Hiebert (chairman and president) recently. He noted that drug companies had hardly tapped many markets. The Sterling Drug Co. reached its first year's sales expectations in France in the first three months. The company, he said, had no plans to build any plants in the Common Market but was eyeing possible acquisitions there. The parent company is expected to report that 1960 sales increased by about 4-5 per cent. over the previous year.

WILLIAM R. WARNER & CO., LTD.—Mr. W. J. Lloyd has been appointed chairman of the board of the company and of its associate com-



Mr. W. J. Lloyd



Mr. J. Coombs

panies, Richard Hudnut, Ltd., and Lambert Chemical Co., Ltd. Mr. L. Coombs has been appointed managing director of the group.

UNILEVER, LTD.—Total dividend is raised from 4s. 6½d. to 4s. 9d. per £1 stock, and of Unilever, N.V., from Fl.20 to Fl.21 per Fl.100 capital, for 1960. Combined turnover increased from £1,787 millions to £1,847 millions, of which sales to third parties were £1,387 millions, against £1,329 millions, but profits, before tax, show a reduction from £114.2 millions to £106.1 millions. The group's contribution by Unilever, Ltd., was higher at £57.9 millions against £55.9 millions, while Unilever, N.V., profits fell from £58.3 millions to £48.2 millions. After tax, lower exceptional items credit, and deducting minority interests, the consolidated combined net profit is down from £60.1 millions to £51.7 millions.

ALBRIGHT & WILSON, LTD.—Group profits, before tax, at £5,045,000 for 1960, show little change from the aggregate £5,025,000 for 1959 of the company and A. Boake Roberts, acquired February 22, 1960. Operations of the overseas companies have been disappointing, according to a preliminary statement, but the United Kingdom companies have continued to make progress. The total dividend is 20 per cent. (against the previous equivalent of 18.3 per cent.). At least a 20 per cent. total has been foreshadowed for 1961 after the W. J. Bush & Co. merger. The 1960 figures include results for a full calendar year of Boake Roberts. The profit balance for 1960, after outside interests and deducting Boake pre-acquisition profits was £2.435 millions, compared with £2.286 millions.

BORAX (HOLDINGS), LTD.—So far as can be judged the current year's group profits should be maintained, says Lord Clitheroe (chairman) in his statement accompanying the accounts:

for 1960. The year 1960-61 is expected to be marked by even keener competition. The group's world sales of boron products were a record in tonnage and value with the greatest progress in the European markets. It was the eighth successive year of increased sales by the British subsidiary, Borax Consolidated, Ltd., which showed the largest percentage increase ever in a single year. Referring to the group's acquisitions, including that of Hardman & Holden, Ltd., since the end of the past financial year, Lord Clitheroe says the directors and management will continue to seek means of broadening the base of the group's activities. Subject to this year's results being satisfactory, it is intended to increase the interim dividend from 3 per cent. to 4 per cent., solely to reduce the growing disparity between payments. For accounts see *C. & D.*, February 4, p. 103.

BUSINESS CHANGES

INTERNATIONAL NICKEL CO. (MOND), LTD., is the new trading title of the Mond Nickel Co., Ltd.

DOMESTOS, LTD., have opened branch premises in Northmoor Road, Huntington, York, which give four times the area of the previous premises.

GRIFFIN & GEORGE (SALES), LTD., have opened a sales centre at Clothier Road, Brislington Trading Estate, Bristol, 4 (telephone: Bristol 70346).

PAROZONE, LTD., is being purchased by a Smith & Nephew Group subsidiary, Wallace, Cameron & Co., Ltd., Shields Road, Glasgow, at a price which is believed to be well over £½ million.

PARKE, DAVIS & CO., LTD., have opened a distribution depot at Weston Road, Crewe, Ches, to service a large part of the North of England and north Midlands. The manager is Mr. J. R. Watkis, formerly the company's Cheshire and north Staffordshire representative.

M. & R. NORTON, LTD., **CAVALCADE BEAUTY PREPARATIONS, LTD.**, and **MARCEL FRANCK & CO. (LONDON), LTD.**, have opened a showroom at suite 52, Empire House, 175 Piccadilly, London, W.1 (telephone: Grosvenor 7927). Messrs. Norton have been appointed the sole British agents for M. E. Mayer, Vienna, Austria, manufacturers of M.E.M. novelty soaps.

Appointments

MR. J. H. S. MARTIN has been appointed the first public relations officer to the Association of British Pharmaceutical Industry.

STAYNE LABORATORIES, LTD., High Wycombe, Bucks, have appointed Mr. Brian Cook a technical representative and he will be operating in the north of England.

ARTHUR H. COX & CO., LTD., Brighton, have appointed Mr. J. Davison to represent them in the territory previously covered by Mr. H. C. Curtis, who is retiring.

DURAZONE (SALES), LTD., Lovers Walk, London, N.3, have ap-

pointed Mr. A. Hughes their Southern divisional sales manager and Mr. Gordon Grundy their Northern divisional sales manager.

MR. CECIL GRICE, who has been appointed general sales manager for the general products of Aspro-Nicholas, Ltd., and Field's toiletries, joined Aspro-Nicholas, Ltd., over nine years ago as a sales representative. Since that time he has been an area manager, sales training executive, field sales manager, and was until this appointment home sales manager, general products.



THOMAS MORSON & SON, LTD., Wharf Road, Ponders End, Enfield, Middlesex, have appointed Mr. A. Fraser Northern representative in succession to Mr. Graham Adams, who is shortly retiring after twenty years' service.

LEDA CHEMICALS, LTD., Berk House, Portman Square, London, W.1, have appointed the following representatives to their pharmaceutical division: Mrs. J. M. O. Sharp, B.Pharm. (for West London and Home Counties); Mrs. H. M. Harrott (East and North London, Essex and East Anglia); and Messrs. J. V. McKee (Northern Ireland); P. Murphy, M.P.S.I. (Southern Ireland); R. Coyle (East central Midlands); and A. Whittaker (West central Midlands).

PERSONALITIES

MR. J. ANDERSON STEWART, B.Sc., B.L., F.P.S., has been reappointed chairman of the Edmonton Group hospital management committee.

MR. JAMES A. HIDDLESTON, F.C.C.A., who is deputy managing director of T. & H. Smith, Ltd., recently completed forty years' service with the company.

MR. K. W. HARGROVE, M.P.S., who is chief chemist for Manesty Machines, Ltd., has been invited to give an address at a symposium on "Tablet Making" arranged by the Czechoslovak authorities, to be held in Prague in the middle of April.

MR. H. CHESLYN CURTIS retires on March 6 from the staff of Arthur H. Cox & Co., Ltd., after thirty-five-and-a-half years' service. Mr. Curtis was the company's representative for a wide area including South-west, North-west and West Central London, Middlesex, Cambridge, Essex, Norfolk, Suffolk and much of Surrey. To reach his eastern territory Mr. Curtis estimates that he must have passed through the Blackwall Tunnel over 1,600 times.

MR. DOUGLAS COLLINS, who is chairman of Goya, Ltd., has resigned his membership of the National Film Finance Corporation. Mr. Collins was appointed a member of that Corporation in June 1955 and became chairman of British Lion Films, Ltd., in

December 1957. Although giving more than half his time to those important film interests he has preferred to take no remuneration. During his office as chairman of British Lion and Shepperton Studios, Mr. Collins has had the satisfaction of seeing the fortunes of both transformed. The President of the Board of Trade (Mr. Reginald Maudling) has written to Mr. Collins accepting his resignation with regret.

MR. S. MACHIN, M.P.S., who is managing director of Rudge Roberts, Ltd., Shrewsbury, has again been chosen as a candidate at the local elections in May. Mr. Machin was elected to the county council in 1949.

MR. FREDERICK VICTOR BUTTERFIELD, M.P.S., South Drive, Harrogate, celebrated his ninety-eighth



birthday on February 28. Believed to be Britain's oldest working pharmacist, he has no thought of retiring from business. Each day, irrespective of the weather, Mr. Butterfield goes by taxi to his pharmacy on Station Bridge which he founded in 1893, and returns for lunch. In the afternoon, following a brief rest, he makes the journey to the shop by bus, and remains there until closing time, assisting his son Mr. Edwin Butterfield.

MR. H. W. VERNON, B.Sc., F.R.I.C., who has completed forty-five years with W. J. Bush & Co., Ltd., has retired but will continue to be associated with the company as a consultant. Mr. Vernon graduated at Manchester University, of which he was a Mercer Research Scholar and joined W. J. Bush & Co., Ltd., as research chemist. For five years the research department of the company was at the Dison-Perrins Laboratory of the University of Oxford. When the department was moved to the Hackney headquarters of the company, he became chief research chemist. He later became chemical superintendent and technical director.

MR. W. R. ROBERTS, M.P.S., who is the Pharmaceutical Society's chief inspector, replied recently to a letter in the *Guardian* from a resident of Petts Wood, Kent, who complained that it was necessary to travel all the way to Piccadilly Circus, London, to obtain drugs after 12 noon on Sundays. Mr. Roberts, who lives in the correspondent's neighbourhood, pointed out that many pharmacists lived on or reasonably near to their establishments and were ready to turn out at any hour and do what was necessary. A telephone call to the local police would usually reveal the nearest source of help in that respect. Phar-

pharmacists could not advertise those services any more than doctors could advertise they were available in the middle of the night.

MR. BORGE SCHOU LUND, B.Pharm., M.Sc., who has recently been appointed managing director of Leo (Ireland), Ltd., is a graduate of Copenhagen University. Mr. Schou Lund is also managing director of Leo Pharmaceutical Products, Emmen, Holland, and supervises the operation of Messrs. Leo's factory in Brazil, holding the appointment of director of foreign factories, Leo Pharmaceutical Products, Denmark.



DR. T. D. WHITTET (chief pharmacist, University College Hospital, London, W.C.1) has been awarded a World Health Organisation Fellowship that will take him on a six-week visit to study hospital organisation in Oslo, Stockholm, Gothenburg, Malmo, Copenhagen, Bonn, Paris and The Hague from April 8. The Fellowship is designed to provide opportunities, not available in his own country, for training and study in health matters. Dr. Whittet is the first British pharmacist to be granted the Fellowship. Dr. Whittet is also reading a paper on drug standards at W.H.O. symposium at Warsaw, Poland, in early June.

MR. P. V. COLEBROOK, the new chairman of Pfizer, Ltd. (see p. 207), joined the company in 1952 as works and production manager. He became one of the youngest directors of the organisation in 1956 at the age of thirty-two, when he was elected to the board of Pfizer, Ltd. At that time he also became responsible for building up the company's research and development activities. In 1958 he was appointed managing director of the company and took responsibility for all companies in the Pfizer Group except Kemball, Bishop Co., Ltd., of which he also became managing director in 1960. He is an Associate Member of the Institution of Chemical Engineers.



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DEATHS

DWANE.—Unexpectedly, on February 17, Mr. Francis Dwane, 30 Mountshannon Road, Kilmainham, Dublin, Eire, aged forty-six. Mr. Dwane had since 1954 been a registered dispensing chemist and druggist of the Pharmaceutical Society of Ireland. A native of Cahirciveen, co. Kerry, he was the proprietor of the pharmacy at 39 Stoneybatter, Dublin, previously owned by the late Mr. F. J. Fitzpatrick, a former president, vice-president and treasurer of the Society.

GROOM.—Suddenly, on February 20, Mr. Donald Groom, M.P.S., 10 Welbeck Road, Doncaster, aged forty. Mr. Groom, who was in business at 41 Carr House Road, Doncaster, became ill as he was preparing to close the pharmacy for the day. He collapsed and died in the dispensary.

HART.—On February 11, Mr. James Stanley Hart, M.P.S., 3 Grasmere Road, Bare, Morecambe, Lancs, formerly of Bolton, aged sixty-nine.

HAY.—On February 11, Mr. Alexander Milne Hay, M.P.S., 41 Argyle Place, Aberdeen, aged fifty-one.

INGLIS.—On February 2, Mr. George Troup Inglis, M.P.S., 3 St. Aidans Road, Carlisle, Cumberland, aged seventy-eight.

JACKSON.—On February 7, Mr. Ernest Rupert Jackson, M.P.S., 10 Mardol Head, Shrewsbury, Shropshire. Mr. Jackson qualified in 1911 and was for over thirty years a member of the Middlesex Pharmaceutical committee, and its chairman, 1939-42. During that period he was also chairman of the Local Pharmaceutical War Committee. Mr. J. Anderson Stewart (secretary, Middlesex Pharmaceutical committee, writes):—"The late Mr. Ernest Jackson was chairman of the Middlesex Pharmaceutical Committee when I succeeded Dr. Dewar as secretary in 1941. At that time he was shouldering an immense burden, not only in his everyday work, but also on the Pharmaceutical War committee. Over a period that committee met almost weekly, and Mr. Jackson always succeeded in holding the balance evenly amongst the many interests involved. In private life he was a delightful companion, and members of the Middlesex Pharmaceutical committee always remember him with affection."

MCNABB.—Suddenly, on February 21, Mr. William Robinson McNabb, M.P.S.N.I., 17 Market Street, Lurgan. Mr. McNabb served his apprenticeship with Mr. Robert Kerr, Lurgan, and qualified in the year 1931. He was president of the Ulster Chemists' Association in 1952, and was a member of the Executive Committee for fifteen years until he retired in 1960. He was a member of the Local Pharmaceutical Committee for



a number of years and had been one of the original members of the Northern Ireland General Health Services Board. He was a founder member and past president of Lurgan Rotary Club, taking a particular interest in the work of its Community Service Committee. A member of Lurgan Golf Club, and Lurgan Bridge Club, he was also a member of the Ulster Chemists' Golfing Association. Mr. McNabb is survived by his widow and two young sons.

O'HARA.—On February 18, Mr. James Frederick O'Hara, M.P.S.I., Tinahely, co. Wicklow, Eire. Mr. O'Hara qualified in 1917. For many years he had a pharmacy at Trim, co. Meath. About a year ago, having retired from business, he took up an appointment as manager of Taylors', Ltd., Tinahely, which he held up to the time of his death. A keen golfer, he was a member of the Irish Chemists' Golfing Society for many years. Two brothers, Mr. Vincent P. O'Hara practises in Ballybricken, co. Waterford, and Mr. Patrick F. X. O'Hara in Abbeyleix, are also pharmacists.

THOMPSON.—On February 24, Mr. John Henry Thompson, 64 Davies Road, West Bridgford, Nottingham, representative of Thos. Guest & Co., Ltd., for over forty years.

URQUHART.—Recently, Mrs. Evelyn Dorothy Clara Urquhart, M.P.S., 21 Jackson Place, Newport, Mon. Mrs. Urquhart qualified in 1921.

WHITAKER.—On February 16, Mr. Joseph Edward Whitaker, M.P.S., Alderley, Sandy Lane, Bramhope, nr. Leeds, Yorks, aged eighty-four.

WOODINGS.—Recently, Mr. Francis Woodings, M.P.S., 24 Ambergate Road, Liverpool, 19. Mr. Woodings, who qualified in 1931, had been in business in Window Lane, Garston, Liverpool, for over twenty-five years.

EXPANSION PLANS

TO provide better facilities for the rapid manufacture of tonnage batches of its many development products, the I.C.I. heavy organic chemicals division of Imperial Chemical Industries, Ltd., is erecting at Billingham, co. Durham, a general-purpose pilot plant which is due for completion in late 1962. Although it will still be necessary to build special pilot plants occasionally, the new plant, together with existing special pilot plants, will be capable of manufacturing the majority of chemicals which are planned for development in the next few years. Products on the development programme of the division which are already available in trial quantities include propylene derivatives, organic acids, alkylated phenols, alcohols, and antioxidants. The company has also decided to begin manufacturing operations on a substantial scale within the European Common Market. Negotiations are well advanced for acquiring a 300-acre site near Rotterdam where the company intends to build a complex of chemical plants manufacturing petroleum chemicals including plastics and related products. Construction is expected to begin early in 1962 and it is envisaged that up to £100 millions will be spent in the next decade.

TRADE NOTES

Binoculars.—The nationally advertised Regent binoculars are obtainable from Highgate Optical Manufacturing Co., Ltd., 44 Hatton Garden, London, E.C.1.

An Intramuscular Presentation.—Dale's Pharmaceuticals, Ltd., Power Road, Chiswick, London, W.4, announce that they are now able to supply Millophyline intramuscular in boxes of six and forty-eight 5-mil ampoules.

Change of Ownership.—The Aero-Ped products for athletes' foot (Aero-Ped ointment and powder and Aero-Medic) are now owned by International Laboratories, Ltd., Hook Road, Chessington, Surrey. Distribution is direct and through wholesalers as before.

Agents in the South-west.—Evans Medical, Ltd., Liverpool, have appointed Evans, Gadd & Co., Ltd., Exeter, to be their agents for Cornwall, Devon and West Somerset from March 1. An Ipsophone service is available for the taking of orders outside office hours.

Withdrawn.—PHILIPS ELECTRICAL, LTD., Century House, Shaftesbury Avenue, London, W.C.2, announce that from March 1 the Philishave Jet dual-voltage and standard models are being withdrawn.—SMITH & NEPHEW, LTD., Bessener Road, Welwyn Garden City, Herts, have withdrawn PAS ampoules from their range of products.

Double Profits for Three Months.—From June 1, the selling price of the Remington 657 standard model electric shaver, which will continue in the range through 1961, is being reduced by £2, but retailers are able to buy from their usual supplier at a new low price during March, April and May. Makers are Remington Electric Shaver, Ltd., 26 Kensington High Street, London, W.8.

Claims for Credit.—Aspro-Nicholas, Ltd., ethical pharmaceutical division, Slough, Bucks, remind chemists who have not yet claimed credit in respect of the recent price reduction of Ambramycin to do so as soon as possible. Claims should be in respect of stocks of Ambramycin capsules and oral suspension held at close of business on February 25. Claims already received are being dealt with in rotation.

Details Soon.—As a means of introducing a new Philishave electric shaver, Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, are holding a series of private luncheons for wholesalers throughout the United Kingdom. The first took place in London on February 28. Others are being held in Leeds, Manchester, Glasgow and Belfast. [Details of the new Philishave next week.]

Easter Bonus Parcel.—L. G. Colomb & Co., Ltd., 3 King Street, Covent

Garden, London, W.C.2, are offering a special "Easter bonus" parcel containing nine Easter egg Delage perfume, and three Easter candle Delage perfumes and a bonus of three Easter candles. The Easter eggs have a cotton wool lining in various shades. The candles, in various bright colours in three styles, carry artificial lily, violet or heather perfume.

Yeast for Animals.—The English Grains Co., Ltd., Shobnall Road, Burton-on-Trent, Staffs, are manufacturers of a number of yeast products sold through pharmacies and by pet-food dealers. Yestos veterinary yeast tablets are issued in bottle of 100 and tins of 1000 and 2500 and Yestos 'E' veterinary yeast tablets, stated to be widely used by breeders in order to avoid "false conception" in their animals, in bottles of seventy-five, 250 and 1000. Yestos irradiated puppy powder is supplied in 8-oz. tin. Yestos 'E' Irradiated Yestos canine yeast is a vitamin tonic supplement containing not only all the vitamins of the B complex but also vitamin D.

Shaver "Trade-in."—Sunbeam Electric, Ltd., Nerston, East Kilbride, Glasgow, give advance notice to wholesalers of a £2 trade-in introduction on all their male shaver models. Further details are being given shortly in a general mailing to the trade and in trade Press advertising. Wholesalers are invited to send in immediately any old trade-in shavers remaining from a competitive shaver scheme. Those otherwise useless models are being taken back directly by Messrs. Sunbeam on a one-for-one basis against orders for Shavemaster and Rollmaster models at normal list prices, less £2, less usual discount and less a further 1s. 6d. allowance on each shaver for handling expenses.

Better Margins for Stockists.—A new trade terms structure, providing greater overall margins, is announced by the Energen Foods Co., Ltd., London, N.W.10, to become effective on March 6. From that date all Energen foods are being invoiced on quantity terms, which will not only provide distributors with added benefits, but will also enable retailers to place their orders more profitably through wholesalers, giving them full advantage of facilities that include speedier delivery and assurance that stocks are in perfect condition. The new quantities and discounts are: 2-3 cases, net (20 per cent.); 4-19 cases, net plus 5 per cent. (25 per cent.); 20-29 cases, net plus 7 per cent. (27 per cent.); 30 cases and over, net plus 10 per cent. (30 per cent.). Substantial advertising for Energen crispbread and rolls is booked on all television stations; and it is being given national Press support.

Bonus Offers

W. B. CARTWRIGHT, LTD., Rawdon, Leeds.—Twelve invoiced as ten on order for 6 doz. or more; twelve for price of eleven on order for 3-6 doz. (one delivery assorted). Direct orders only. March 1 to April 30. Lady Gay hair set (lanolised), May Breezes, Insectox fly spray, lavender mothproof, Casino supertan spray, and Lady Gay tint Glo (six assorted shades).

PUBLICISING PHOTOGRAPHY

Work of the Photographic Information Council

THE Photographic Information Council was formed in 1958 to promote public interest in photography. A non-profit making organisation, it is supported by members of the photographic trade throughout the United Kingdom and Eire. On its executive committee are representatives of leading manufacturers and trade organisations, including the Photographic Dealers' and the Wholesale Photo Finishers' Associations.

Before the Council was formed, responsibility for publicising photography among the general public was held by a committee of the Photographic Dealers' Association. The decision to set up the Council was taken in order to allow all other interests in the photographic trade to lend their co-operation. Today the Council has many subscribers, and thousands more people in the trade are indirectly represented through the P.D.A. and the W.P.F.A. Currently a special campaign is being run to encourage many more chemists and photographic dealers to become members at the minimum annual subscription of £5 5s.

The activities of the Council cover every field in which amateur photography may be usefully publicised—newspapers, women's and industrial magazines, films, radio, television, competitions, and even match boxes. Regular features are syndicated to newspapers and magazines, and special articles are written on request. A quarterly photographic feature is sent to over 200 industrial house magazines.

During 1960, the "Carry A Camera" and "Flash Photography" weeks were

backed by photographic supplements in over sixty newspapers.

On December 7, 1960, Mr. Antony Armstrong-Jones presented the trophies in the second annual National Challenge Trophies Competition for schools' photography. That event obtained world-wide publicity and was featured in every national newspaper in this country and on radio, television and newsreels. The Council encourages schools to form camera clubs and sends a regular news sheet to all on its lists.

"May Time is Camera Time"

As announced at the end of 1960 (C. & D., December 31, 1960, p. 781), the Council is collaborating with the photographic trade in a Spring campaign on the theme "May Time is Camera Time," aimed at attracting the public to photographic dealers and chemists. Showcards and window streamers are being supplied for point-of-sale advertising, and posters at British Railways and London Underground stations will remind the travelling public of the slogan. All photographic manufacturers and dealers are being asked to use the theme in their advertising. When the May campaign is over the wording is being modified to "Any Time is Camera Time."

An additional service for retailers is a 15-second advertising filmlet available for showing in local cinemas at a price that includes the business name and address of the advertiser. Details of that and other work of the P.I.C. may be obtained from the Secretary, Photographic Information Council, Wardrobe House, Wardrobe Place, London, E.C.4.

NEW PRODUCTS AND PACKS

Pharmaceutical Specialities

Cholesterol-level Control.—A speciality Cholesterolin (sodium D-thyroxine—Baxter) for the control of blood-cholesterol levels, has been introduced in pack of fifty 2-mgm. tablets by Baxter Laboratories, Ltd., High Wycombe, Bucks.

A New Form of Bandage.—Smith & Nephew, Ltd., Bessemer Road, Welwyn Garden City, Herts, announce the availability of their standard Gypsona plaster-of-Paris bandages in 4-, 6- and 8-in. widths, packed in a "dispenser" pack containing one continuous length of 21.9 yd. of six thicknesses to facilitate cutting quickly and exactly to any desired length of slab.

Injectable Long-acting Oestrogen.—Pharmethicals (London), Ltd., 20 Gerard Street, London, W.1 (a subsidiary of Schering A.G., Berlin, Germany), have introduced Primogyn depôt, 100-mgm., an injectable long-acting oestrogen for the intramuscular treatment of carcinoma of the prostate. Each ampoule contains 100 mgm. of oestradiol undecylenate in 1 ml of a clear oily solution.

Antifungal Dusting Powder.—E. R. Squibb & Sons, Ltd., Edwards Lane, Speke, Liverpool, 24, announce the introduction of Nystatin (antifungal antibiotic) dusting powder, containing 100,000 units of Nystatin per gm. of purified talc base. It is indicated for skin lesions caused by *Candida albicans*, such as athletes' foot and napkin rashes, particularly in moist areas where a drying effect may aid healing. Sensitivity reactions to Nystatin are understood to be rare, while clinical resistance to the antibiotic has not been reported in more than five years of use. Nystatin dusting powder is supplied in ½-oz. plastic squeeze bottle.

Promazine by Delayed Release.—John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1, announce the introduction of a product Sparine Latab, a delayed-release, long-acting tablet containing the equivalent of 50 mgm. of promazine hydrochloride in a resin complex claimed to ensure gradual release and gradual but controlled absorption of the active drug. Indicated for the management of the elderly patient with emotional instability, either at home or in hospital, Sparine Latab may additionally be used for the control of agitation (as in ambulant and out-patient psychotics) for the alleviation of nausea and vomiting, and for the potentiation of analgesics (as in terminal carcinoma cases). Sparine Latab is available in bottles of twenty and 250 tablets.

A New Phenothiazine Derivative.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, announce the introduction of Majeptil brand thioproperazine methanesulphonate, presenting, in enhanced degree, the characteristic pharmacological properties of Stemetil brand prochlorperazine. The compound is understood to show correspondingly intensified activity as a psycho-corrective agent and so to be specially indicated for trial in chronic schizophrenic patients who have failed to derive any

substantial benefit from existing methods of treatment. The product is also claimed effective in controlling acute mania and other states of psychotic excitement. Majeptil is primarily of interest to psychiatrists in mental hospitals, but patients discharged on maintenance treatment may be referred subsequently to general practitioners. For that purpose the speciality is available in packs of fifty and 250 1-mgm. and 5-mgm. tablets. Majeptil is subject to P.I., S.4b of the Poisons Rules.

A Spray to Relieve Pain.—Claimed the first preparation to be produced specifically for use as a cold spray for the relief of pain, Skefron, a new speciality of Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts, is now available. Skefron is a mixture of fluorochloromethanes packed in a metal canister, and the treatment consists of spraying the skin of the affected area with the product. That is understood to initiate a barrage of nervous impulses that pass up to the central nervous system. The temporary obliteration of pain caused by that barrage often leads, the makers state, to immediate and complete or transitory relief of pain. The technique of skin cooling as a means of relieving pain was studied at Cornell University in 1941 by Dr. Janet Travell and her colleagues, and the procedure was tried in 1951 at a leading teaching hospital in the north of England. The method has been found successful in relieving pain associated with dysmenorrhoea, slipped intervertebral disc, tension headache, migraine, lumbago, fibrositis and post-herpetic neuralgia. Skefron is virtually non-toxic and has no general anaesthetic property. It is non-inflammable and does not freeze the skin as readily as does ethyl chloride. The canister contains 5 fl. oz.

Cosmetics

Oily Polish Remover.—A new-formula Cutex oily polish remover is being distributed by J. C. Gambles & Co., Ltd., 209 Blackfriars Road, London, S.E.1. The new formula, described as "gentle," contains lanolin. The pack is a bottle of generous proportions.

Lipstick Fashion Colours.—Three new lipstick colours ("Top Trio") available from Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, in the Max Factor creamy Hi-fi formula, are "Orchid Coral," "Coffee Amber" and "Pink Ivory." They are to be had as standard gilt case, automatic refill and lipstick in case. They are launched for sale from mid-March.

Semi-permanent Hair Colouring.—A new semi-permanent colouring, Color-Match, marketed in Britain by Golden, Ltd., 7 Grosvenor Street, London, W.1, is described as a harmless liquid semi-permanent colouring that requires no skin test, is applied like a shampoo, and takes only minutes to conceal grey hairs for 4-6 weeks. To women whose hair is starting to go grey, the product offers natural colour plus improved hair condition. There are six shades to choose from. Color-Match is claimed rain-proof and swim-proof.

Spiral Brush-on Mascara.—Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, sole distributors of Tattoo products, announce the availability of Tattoo spiral brush-on mascara. The mascara, having a *cafe-au-lait* and gold-capped container, is claimed one of the neatest and most elegant of its kind, and to have a new improved extra-waterproof and odourless composition so that it cannot run or smear. The mascara is available in five colours (black, brown, blue, green and grey).

Redesigned Case.—Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, have introduced their creamy powder compact Feather Finish in a redesigned



pale pink case with golden motif on the lid. The product is available in the shades of blonde, medium 1, peach, medium 2 and brunette. The container has a pink plastic lid that fits over a golden base.

Sundries

Safety Pack for "Clinicals."—A specially designed counter display carton has been produced by G. H. Zeal, Ltd., Lombard Road, London, S.W.19, for their clinical thermometers. The carton holds twelve individually "window"-cartoned thermometers.

"Bonus-size" Packs.—George Goodman, Ltd., Birmingham, 28, suggest that Kirbigrips, "Britain's favourite hair-grips," will sell faster than ever when customers see the new "bonus-value" cards each bearing more Kirbigrips than the one it replaces. The two sizes are a "60-count" and a "20-count" cards.

Vacuum Flask in Bonus Pack.—A new vacuum—the Voyager—flask launched by Acme Vacuum Flask Co., Ltd., Phoenix Works, Bridgend, Glam, in 16-oz. and 8-oz. sizes, has a leak-proof screw stopper with quick-action drip-free lip. In lustre colours, it is marketed with an introduction bonus of 5 per cent. on standard parcel value £5 4s.

Plastic Pack for Lavatory Cleaner.—Jeyes (Sales), Ltd., River Road, Barking, Essex, are marketing a new giant-size Sanilav in plastic pack, claimed the first of its kind in this country. The container will, of course, not rust. Nor will it dent or mark the floor or, if dropped, crack the bowl. The cap needs only a quick twist to enable the pourer to be used. The contents have a new "fresh air" perfume.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Balance of Advantages

SIR,—In a recent "Panorama" television programme the spokesman for the South-west Regional Hospital Board made a great point of the savings effected by buying drugs from the Continent (see *C. & D.*, February 18, p. 148). From the country's point of view, is not that a short-sighted policy? Had those drugs been purchased in this country the manufacturers concerned would have made a proportionately increased profit, of which the Government would have taken a substantial slice in taxation. The employees engaged in the making and handling of those drugs would have contributed a further sum to the Government by way of income tax, not to mention purchase tax on part of their spending. Finally the country's disturbing balance-of-payments position would have been correspondingly healthier.

B. C. LEWIS,
Liverpool, 1

Ignorance and Defeatism

SIR,—I was shocked at the ignorance expressed by J. P. Ryan in his letter (*C. & D.*, February 25, p. 177). Perhaps Mr. Ryan would be interested to know that the main reason for the present shortage of pharmacists is the long course of training (five years and sometimes longer). The modern pharmacist's knowledge ranges from measuring the speed of nervous impulse to the synthesis of atropine, with numerous subjects in between. The assistants usually sell the baby pants! The pharmacist himself is required to advise and to ensure that the poisons regulations, etc., are observed. Has the grocer a code of professional conduct, or any knowledge of the composition or action of the ingredients in various proprietaries? Next time my local doctor telephones to consult me on any pharmaceutical matter, perhaps Mr. Ryan would have me refer him to the local grocer.

M. R. MALCOLM,
Bristol

SIR,—If all pharmacists had the deflated view of themselves revealed by Mr. Ryan, they might as well tear up their certificates and disband the Pharmaceutical Society at once. Whilst it must be agreed that some of his remarks are correct, the fact that our income is drawn from the sale of goods as well as skill is certainly nothing to be ashamed of, and should not prevent us from striving to better ourselves. It is certain that if we do not think well of ourselves, we have no right to expect that others will think well of us. I have the honour to act as one of the two pharmacist members of one of the larger Executive Councils and I have always found that both my colleague and I have been treated as equals by the medical and dental members of the Council, and I have certainly never heard any member of the Council,

either lay or professional, pass any derogatory remark about pharmacy. Lest Mr. Ryan should think that the doctors, whom he apparently sets upon a professional pedestal, are immune from the cash considerations arising out of the sale of goods (in this case dispensing for N.H.S. patients) I would be pleased to give him details of a two-year struggle which I have had to wage in order to persuade a group of doctors to cease dispensing for a fairly large number of patients residing within the "mile limit." Many things are wrong with pharmacy, but they will only be put right by positive effort, allied to the will of pharmacists to better themselves. The defeatist attitude expressed by Mr. Ryan will get us nowhere.

ANDREW MEDCALFE,
Lancaster

Stability of Nicotinamide Tablets

SIR,—In an article on vitamins recently (*C. & D.*, January 14, p. 39), you mention the lack of stability of many vitamin products. A case in point is nicotinamide tablets, which today, invariably lose their potency, if kept long before use, in the form in which they are presented by manufacturers. The tablets should be given an airtight sugar casing, in order to retain the value of the drug, or it should be presented in capsules. Although at present the vitamin is perhaps not a "popular" one, its use will increase as it becomes realised how many people are effected by deficiency of it. It would be unfortunate that they should not respond to treatment owing to the instability of the tablets that had been prescribed.

G. W. KAYE,
Chadwell Heath, Essex

Putting the Clock Back

SIR,—Parliament passed between 1802 and 1812 certain Acts that levied duty on *all* medicines for human use. Any medicine valued at a resale price of between 1s. 0½d. and 2s. 6d. inclusively carried a stamp duty of sixpence. That duty was *not* levied on prescriptions. Less than thirty years ago the Medicine Stamp Duty Acts were repealed. The imposition of a 2s. charge on National Health Service prescription items compels me to offer the Minister of Health congratulations upon putting the clock back either thirty or 159 years. The time interval chosen is immaterial. Congratulations are also offered the Minister upon the brilliant inhuman sagacity he exhibits in imposing a duty upon medical practitioners' prescriptions. Illness imposes a financial strain upon most people, and it is doubtful if any sensible person enjoys either sickness or the financial strain. It is, however, I suggest unique in the history of an alleged advanced community to impose a financial penalty upon the sick for attempting to obtain medicaments that may well restore them to a healthy

condition, enabling them to work and so contribute to the community's wealth. I was under the impression the Health Service was established as a measure to help the sick, not to make them pay contributions when they are fit and still tax them when they are sick and under financial strain. I am thus thankful to the Minister for correcting my erroneous impression.

PROVOCATIVA

Why No Counter-attack?

SIR,—I am surprised to find that the pharmaceutical "powers that be" make no effort to counter the attacks on the pharmaceutical trade, because the attacks on the National Health Drug Bill are reflecting on the retail pharmacist. It has come to the stage when pharmacists have become so indoctrinated that they fear the increases in the drug bill and even attempt to blame certain groups of manufacturers. Do we really expect the drug bill to remain the same? The general medical services in 1951 cost the country £48.8 millions and in 1959-60 £76.7 millions. The pharmaceutical services in 1951 cost £52.5 millions and in 1959-60 £76.2 millions. The latter figure includes the cost of drugs and dispensing fees, etc. The doctors received more in fees alone. Mr. Teeling Smith, in a recent issue of *THE CHEMIST AND DRUGGIST* (*C. & D.*, January 21, p. 61), gave some interesting facts that should be given great publicity. He points out that, in the past ten years, the cost of the pharmaceutical service has remained practically constant at 0.38 per cent. of the national income. What is more, for the period 1950-60 it has been constantly around 10 per cent. of the health service as a whole. The Hinchliffe Committee in 1959 drew attention to the fact that, between 1951 and 1958, the hospital services, local health services and general medical services all rose more than the pharmaceutical services and the doctors have had another rise since then. Yet we have the Press and the politicians using the pharmaceutical trade as a whipping boy. Mr. Teeling Smith quotes the Board of Trade wholesale price index, which gives the same story. "Pharmaceutical preparations" rose 1.6 per cent. between 1955 and 1959. Over the same period all "manufacturers' products" rose 11.4 per cent.—eight times as much. For the same period the "pharmaceutical chemical" index dropped 17.9 per cent. In the year 1959-60 the country spent £939 millions on alcohol, £1,061 millions on tobacco, yet there is this grumble at spending £76.2 millions on the finest and cheapest drug service in Europe. I believe that the pharmacist has the worst publicity of any profession or trade. We badly need an efficient public relations officer who will put the pharmacist in true perspective in the public esteem.

T. P. MARTIN,
Cardiff

The
CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

New Opportunities in Photography

PHOTOGRAPHY is now recognised by the majority of pharmacists in retail practice as a worth-while pursuit, both in terms of financial reward and as an added means of creating a personal link with customers. What is it that makes this fascinating hobby "click"? Undoubtedly a major factor is the joy that we all experience on seeing ourselves in the picture, even if the result sometimes turns out to be unflattering. The task of simplifying the novice's path to perfection has been keenly taken up by manufacturers, who have made great strides in recent years towards bringing the quality camera within a price-range acceptable to the amateur. A novice transformed from snapshotter to sharpshooter takes little added persuasion to grasp at the prospect of furthering his satisfaction and reputation in what has suddenly revealed itself to him as an absorbing recreation—and there may still loom ahead the attractions of colour and cine. The extent to which the chemist can apply himself to the promotion of photography is more often dependent on time than on enthusiasm, for the majority of chemists are already photographically minded. However, it is important to ensure that at least one other member of the staff should be able to cope with simple inquiries on what can be a rather puzzling subject to some. True, the majority of customers request merely a "roll of 120, please" or something comparable, but the important thing to remember is that members of the public are becoming more educated in the subject, and consequently at times a little more "choosy." Such particulars as the type of film best suited to any given weather conditions, and the relationship between different scales of film speed ratings, should be near at hand. Those points are worth bearing in mind at a time when the customer, influenced by a publicity campaign that will this year be greater than ever, is entering the shop prepared to dip more deeply into his pocket to spend on his hobby.

Overseas Trade in January

THE higher trend in United Kingdom exports of drugs, medicines and medicinal preparations was—at £4.1 millions—well maintained in January. Though the month is normally a good one for drug exports, the official returns just published (see table) show that they even rose by about 9 per cent. compared with January 1960. Australia's purchases were, at £433,000, considerably higher than in the previous January (£309,000). So also

were those of Nigeria at £321,000 (£247,000). Shipments to North America, however, slumped badly, especially to the United States, whose imports, at £80,000, were only one-third of the value shipped during the previous January. Exports to Common Market countries were up, except to Italy. Denmark has lately been the exception among the Outer Seven to show increased purchases, but that trend was reversed in January. The Irish Republic's purchases were valued at £179,526 (against £151,148 in January 1960).

Liver extracts have been dropped from the monthly list of Trade and Navigation Accounts, so that it is no longer possible to include that item in our table. As an additional item the Board of Trade now gives the export value of anæsthetics (excluding chloroform, ether and ethyl chloride).

Just as the high rate at which the country's imports are running is causing concern to the Government, so too must the quantity of prepared medicines that are being imported cause anxiety to domestic producers. In January the value amounted to £550,234, of which antibiotics accounted for about 20 per cent. Why the United Kingdom, which discovered the first antibiotic, should now find it necessary to import drugs of that class at the rate of over £1½ million a year, as it did in 1960, is a question whose answer is not immediately apparent to us.

EXPORTS						VALUE
						£
Drugs, medicines, medicinal preparations (total)	...	...	...	...	...	4,142,794
Vitamins	...	...	...	...	...	260,887
Penicillin salts	...	...	...	...	...	63,043
Penicillin injections	...	...	...	...	...	71,422
Penicillin tablets, ointments, etc.	...	...	...	...	...	55,715
Antibiotics other than penicillin	...	...	...	...	...	578,562
Alkaloids	...	...	...	...	...	146,310
Aspirin	...	...	...	...	...	117,817
Antihistamines	...	...	...	...	...	65,854
Antipaludics	...	...	...	...	...	119,834
Barbiturates	...	...	...	...	...	47,774
Anæsthetics (excluding chloroform, ether and ethyl chloride)	...	...	...	...	...	84,783
Ointments and liniments	...	...	...	...	...	139,228
Insulin	...	...	...	...	...	30,635
Hormone and gland preparations	...	...	...	...	...	132,283
Sulphonamides	...	...	...	...	...	97,247
Proprietary medicines	...	...	...	...	...	1,281,842
Other medicines, unclassified	...	...	...	...	...	806,176
Glycerin	...	...	...	...	...	25,840
Acetone	...	...	...	...	...	48,563
Citric acid	...	...	...	...	...	62,556
Perfumery and toilet preparations	...	...	...	...	...
Lipstick, face powder, etc.	...	...	...	...	...	278,659
Dentifrices	...	...	...	...	...	191,291
Toilet soaps	...	...	...	...	...	296,866
Synthetic detergents	...	...	...	...	...	857,853
IMPORTS						£
Vitamins	...	...	...	...	...	40,764
Antibiotics	...	...	...	...	...	101,552
Alkaloids	...	...	...	...	...	65,815
Proprietary medicines	...	...	...	...	...	96,495
Unclassified medicines	...	...	...	...	...	245,608
Borax	...	...	...	...	...	109,306
Iodine	...	...	...	...	...	14,146
Menthol	...	...	...	...	...	11,003
Essential oils	...	...	...	...	...
Bergamot	...	...	...	...	...	12,069
Citronella	...	...	...	...	...	35,994
Clove	...	...	...	...	...	14,792
Geranium	...	...	...	...	...	36,780
Lavender	...	...	...	...	...	43,263
Lemon	...	...	...	...	...	69,022
Orange	...	...	...	...	...	18,145
Peppermint	...	...	...	...	...	102,295
Unclassified	...	...	...	...	...	281,852

NEW FILMS AND FILMSTRIPS

Management of Diabetes at Home

Camera Talks, 23 Denmark Place, London, W.C.2.

PRODUCED under supervision by the Queen's Institute of District Nursing, the filmstrip is designed to assist nurses in the care of the diabetic patient at home. It includes the



technique of insulin injection by nurse, relative or patient; urine testing; symptoms and treatment of insulin reaction; and general management. A copy of the filmstrip has been presented to 150 training homes by courtesy of Burroughs Wellcome & Co. (The Wellcome Foundation, Ltd.).

Well I'm Blowed

FILM HOUSE PRODUCTIONS, LTD., in conjunction with C. J. LYTLE, LTD., for the *Glass Manufacturers' Federation*, 19 Portland Place, London, W.1. Colour. Sound. 35 and 16 mm. Running time twenty minutes.

BECAUSE of the complex nature of the modern glass container industry it is not easy to keep customers informed of new techniques and services. To help bridge the gap the Federation commissioned a colour film that will be available to individual companies, to trade and professional associations of industries using glass containers, and to the general public through educational bodies and women's groups. In the film the sales manager of a glassworks looks back on his career in the industry. During his career the industry changed from one using manual or only limited mechanical means to one in which almost the entire production is automatic. The production of glass containers is shown from the mixing of the raw materials and their feeding to the furnaces, through the extrusion of the molten glass into the moulds of machines and through the annealing lehrs for gradual cooling and inspection. Tests carried out on sample containers are shown, as well as ancillary processes such as vitreous enamel labelling. Visits are paid to the department of glass technology at the University of Sheffield and to the British Glass Industry Research Association. Examples are shown of what constitutes effective design in glass containers. For a pharmaceutical audience what is remarkable is the glamour conjured up by such specialised vessels of pharmacy as the recessed-label shop round, the polygonal or oval poison bottle and even the everyday medicine bottle, though the milk bottle and jam jar are chosen to illustrate the application of fully automatic production methods. The film has both entertainment and informational value. The 16-mm. version will not be ready until April. Application should be made to the Federation's public-relations officer: Mr. C. E. Weedon.

Glaxo in Britain

FILMS OF TODAY, LTD., for *Glaxo Laboratories, Ltd.*, Greenford, Middlessex. 16 mm. Colour. Sound. Running time thirty-nine minutes. Other languages.

FILMED in 1960 at the Glaxo establishments at Greenford, Barnard Castle, Harefield, Montrose, Stoke Poges and Ulverston, the film builds upon the interest shown in the company by a university student a portrayal of the company's

development from the time when it first made an impact on the British public with the slogan "Glaxo Builds Bonnie Babies" (1908). The early success of Glaxo dried milk is shown to account for the company's interest in nutrition, leading to a sequence of food products including Farex, Casilan and Complan and, in Africa, a food Amama manufactured from raw materials on the spot. The early introduction of vitamin D into the food products, which later led the company into the field of medicine, is exemplified in pictures of the irradiation of ergosterol to produce the vitamin. The company's achievement in isolating vitamin B₁₂ in 1948 is brought in, and the film explains how the manufacture of baby foods under strictly hygienic conditions gave rise to an interest in bacteriology that later led to the development of vaccines and the establishment in 1956 of a biological unit. Bacterial and virus vaccine operations are shown and the problems of manufacturing poliomyelitis virus vaccine are explained. The film proceeds to show the early history of penicillin manufacture, using first surface culture and then deep fermentation methods; of streptomycin and other antibiotics such as the antifungal griseofulvin. Pictures follow of the research division set up in 1950, of the Glaxo veterinary research station, and of the numerous chemical steps in the synthesis of cortisone and allied substances. The film is available for showing to branch meetings and would make an excellent "first feature" in a film evening for a pharmaceutical audience.

Pharmaceutical Society of Northern Ireland

MONTHLY MEETING OF COUNCIL

AT the monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland, held in Belfast, on February 16, Mr. Brian Flatley, Magherafelt, was unanimously co-opted a member of the Council.

A report was received from Messrs. Gamble and Cooper and the secretary (Mr. W. Gorman) on their visits to certain technical colleges in Great Britain. Further consideration of the report was referred to the Education Committee.

It was agreed to restore to the register of pharmaceutical chemists the names of David Hugh Coffey, 8 Lisnagarvey Drive, Lisburn, co. Antrim, and David Wilson McMullan, Roussel Laboratories, Ltd., London, N.W.10.

A letter from Mr. P. R. W. Shinner was read, stating that as he now found it extremely difficult to attend the meetings he wished to tender his resignation from the Council. After discussion it was agreed to accept his resignation and to send him a letter expressing the gratitude of the president and members for his services to pharmacy during the past fifteen years.

It was also agreed to impress the seal of the Society on the certificates of registration of Mary Teresa Philomena McGee and Francis Robert Trimble.

Reports from the Education and Finance Committees were adopted. The examiners' reports are held over.

A PHARMACIST'S ANTHOLOGY BOTH NAUSEOUS

From "*The Life of Charlotte Brontë*," by Mrs. Gaskell, January 10, 1849.

"ANNE had a very tolerable day yesterday, and a pretty quiet night last night, though she did not sleep much. Mr. Wheelhouse ordered the blister to be put on again. She bore it without sickness. I have just dressed it, and she is risen and come downstairs. She looks somewhat pale and sickly. She has had one dose of cod-liver oil; it smells and tastes like train oil."

January 15, 1849.

Her cough is the most troublesome at night, but it is rarely violent. The pain in her arm still disturbs her. She takes the cod-liver oil and carbonate of iron regularly; she finds them both nauseous, but especially the oil.



C & D ANNUAL PHOTOGRAPHIC NUMBER

Photo - micrography

F O R P H A R M A C I S T S

DOUGLAS F. LAWSON

BY photomicrography is understood photographs taken with the aid of a microscope. Better still, it means photography through the microscope, producing highly magnified photographs of the minutest object. The variety and range of specimens that can be photographed by means of this fascinating medium are unlimited.

Many pharmacists already use or have used a microscope in the course of their work. They examine numerous subjects but can only memorise what

Surround : Polythene $\times 33$.

they saw during those brief periods.

Perhaps they have examined crystals, for example, and compared their size with previous orders. On the other hand the purpose may be to see what a certain emulsion is like and how it compares with another similar product. In both examples the specimens ought really to be photographed, but somehow one usually never gets down to it. Why not? It has to be realised that a knowledge of both fields, microscope and camera, is a necessity to the photographer or microscopist before a photomicrograph can be produced. The proud possessor of a 35-mm. camera of Contax or Leica type, or any of the plate cameras, can use any of them in conjunction with the microscope and all are capable of producing good results.

Practically any type of microscope will serve the purpose well, and most may be used in either vertical or horizontal positions. The writer works with both set-ups, but much prefers to work with the instrument vertical. Specimens in water, in fact, can only be photographed in this way, and the set-up may be used also for unmounted crystals, stained sections and mounted specimens of bugs and so on.

Camera Attachments

One important point to remember when fixing the camera over the instrument is to make sure that the lens is carefully removed. When that cannot be carried out it is advisable to set the camera to infinity. The camera lens should be placed slightly away from the eyelens of the eye-piece, thus eliminating the possibility of vibration. Special eyepiece camera attachments can be purchased to take 35-mm. film, and also plates of various sizes, Figs. 1 and 2. Camera attachments are fitted with either viewing eye-piece or ground-glass screen which enables the subject to be seen and focused before and during exposure. Little attention needs to be paid to the camera, but a closer look is called for at the microscope and its component parts.

The simple objective has now been replaced by the compound objective, with its various types of glasses—an instrument that has reached the height of perfection. The apochromatic objective consists of a series of lenses corrected for the various aberrations that could ruin a picture. The presence of chromatic aberration is indicated by colour fringes. The image formed by uncorrected objectives produces false rings around the image area and, in addition, any speck of dust or foreign matter in the mounting medium is encircled with diffraction rings. The same effect can, however, be produced when the substage iris is reduced too much. The achromatic objective is a useful lens, not quite as perfect as the first mentioned, but sufficiently corrected to

give a fair image at low magnifications. The latest type of objective in this class is known as semi-achromatic. Such lenses are, however, limited in their size and the degree of magnification which they are capable of producing. Whatever the objective, two things are common: the short working distance of the higher-powered lenses and also the lack of depth of field, both of which are great handicaps.

When an apochromatic objective is being used, a fully corrected eye-piece should also be used, so as to ensure maximum resolution and an image as near perfection as possible. The most commonly known are the Huygenian and the Ramsden. The former consists of two plano-convex lenses with the convex surface facing downwards. The lower lens is known as the field lens and the top lens as the eye-lens, the latter projecting the image on to the photographic emulsion. The construction of the Ramsden is slightly different.

The convex surfaces face each other. Such an eyepiece is mainly used for measuring and counting purposes, a graticule being placed below the lower lens. The viewing eye-piece used in conjunction with photo-micro attachment cameras is extremely useful when photographing living organisms, which may be followed and focused upon right up to the time of exposure.

The condenser is one of the most important parts of the optical system. Its main function is to collect the light from the source and concentrate it therefrom to the specimen and in the form of a cone of concentrated light, filling the objective. If the condenser is to be used for visual work only, an Abbe type is quite suitable, but when used in conjunction with the camera it is an advantage to use a better-quality model. A fully corrected condenser concentrates the light from a wider cone. With an oil-immersion condenser the cone is wider still, giving brilliant



Figure 1



Golder Microflex $2\frac{1}{2} \times 3\frac{1}{4}$ in. camera fits over eye-piece and is seen in operation together with Beek intensity lamp.



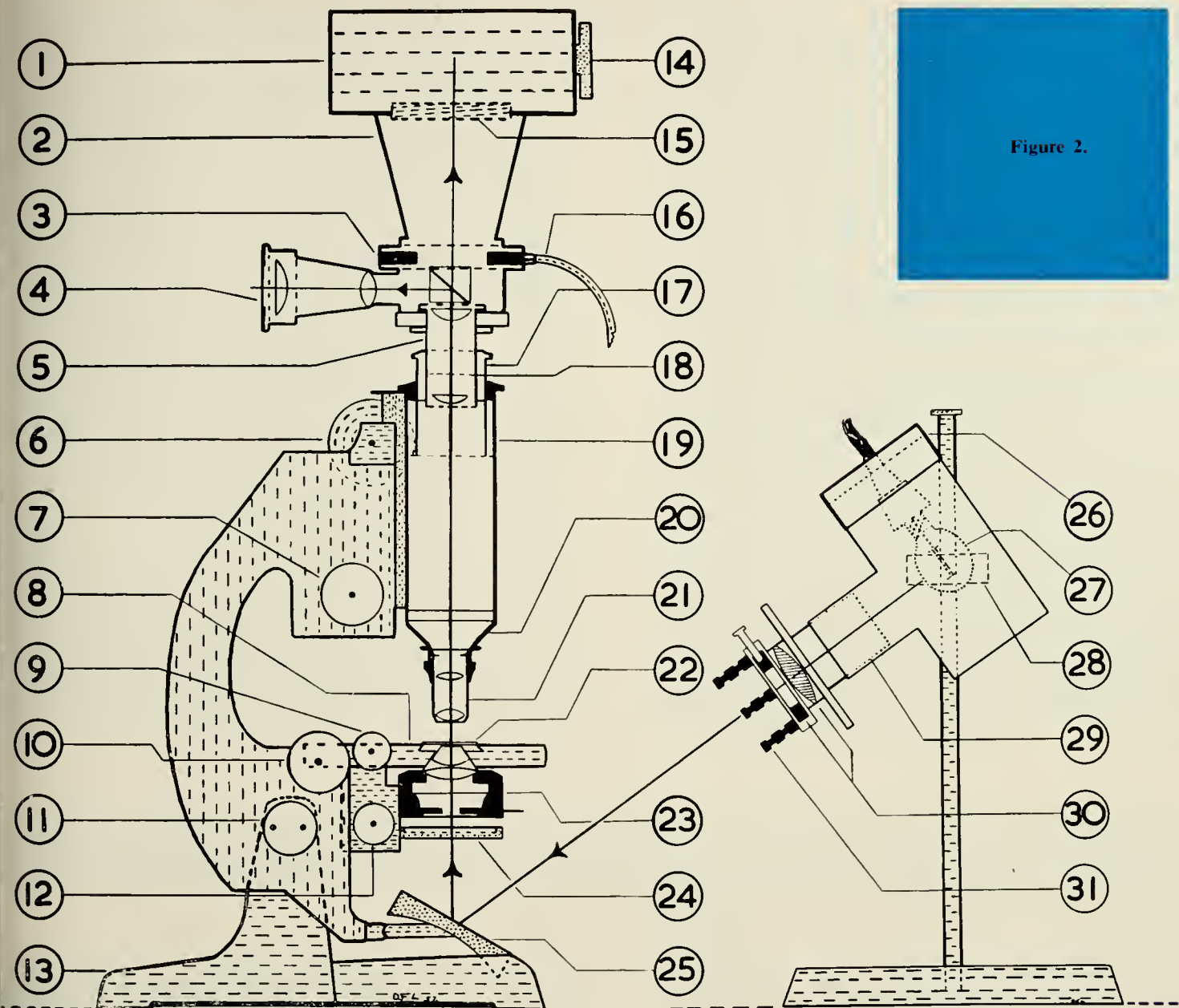


Figure 2.

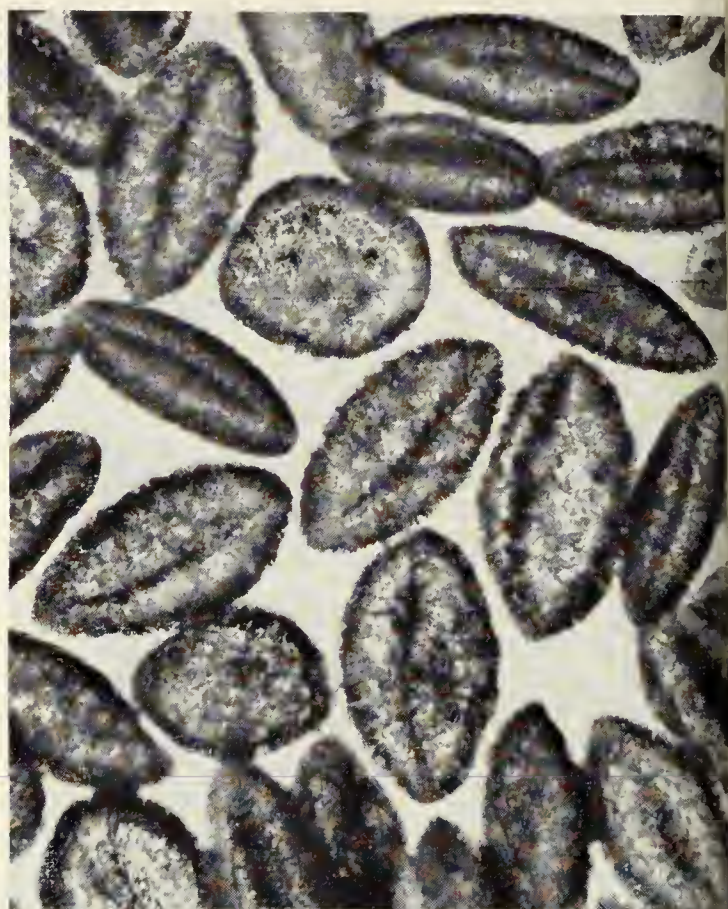
illumination. Every photomicrographer should get to know the focal length of his condenser, for, with a condenser of the correct focal length for the job, a better concentration of light is obtained. The top lens of the condenser can be removed when working with objectives of 1 in. or longer.

The lighting problems with which the photomicrographer is faced are many, as so much depends upon the way a subject is illuminated. Normally, of course, only artificial light is used, but it is employed by many methods, such as phase-contrast*, dark-ground* or polarised light*, each having its own merits. The subject-matter controls the form of illumination used. Subjects are either transparent or opaque. Transparent specimens are, as a rule, photographed by means of a strong light passing through them from the substage condenser, the subject lying on the stage between the latter and the objective. The mirror has one plane and one con-

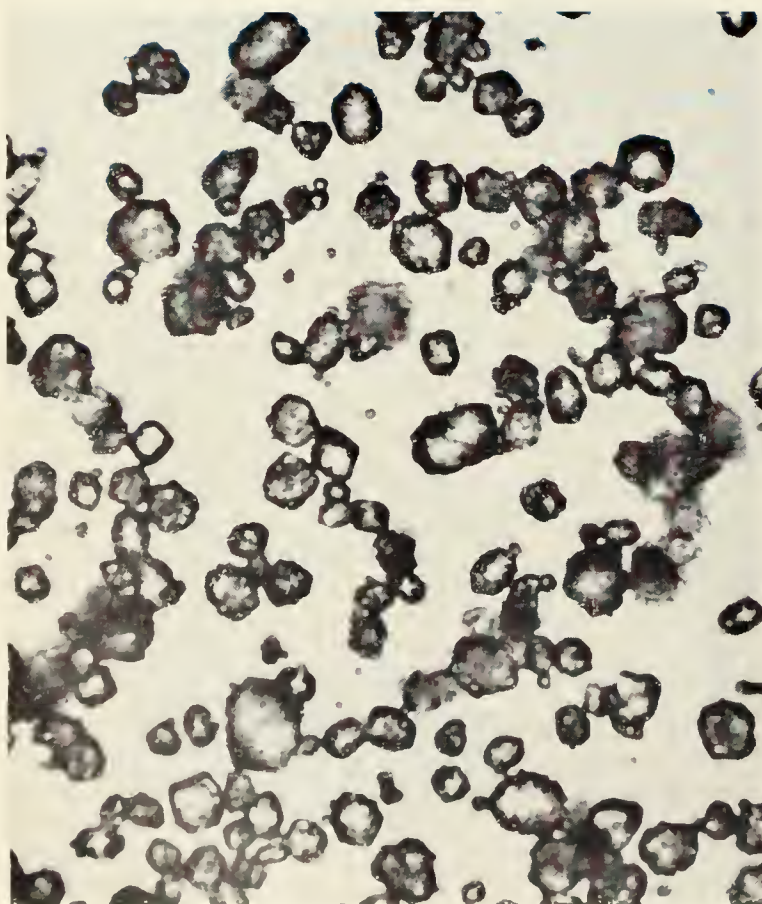
- 1. 35-mm. camera.
- 2. Camera attachment.
- 3. Camera shutter.
- 4. Viewing eyepiece.
- 5. Eye-piece.
- 6. Coarse adjustment.
- 7. Fine adjustment.
- 8. Stage.
- 9. Stage adjustment (lateral).
- 10. Stage adjustment (forward movement).
- 11. Joint (hinged).
- 12. Substage focusing adjustment.
- 13. Foot.
- 14. Film wind.
- 15. Camera screw-thread attachment.
- 16. Shutter release cable.
- 17. Draw-tube.
- 18. Primary image.
- 19. Body tube.
- 20. Nosepiece.
- 21. Objective.
- 22. Specimen.
- 23. Substage condenser.
- 24. Filter carrier.
- 25. Mirror.
- 26. Bulb adjustment sleeve.
- 27. Coiled filament bulb.
- 28. Height & tilt adjustment.
- 29. Focusing sleeve.
- 30. Iris diaphragm.
- 31. Filter holder.



Rye-grass seed. $\times 10$. Oblique illumination.



Lily pollen. $\times 320$. Transmitted illumination.



Chalk particles from drinking water. $\times 500$. Transmitted illumination.



Yttrium platino-cyanide crystals. $\times 80$. Oblique illumination.



Aspergillus amstelodami, $\times 800$, (airborne fungi). Transmitted illumination.



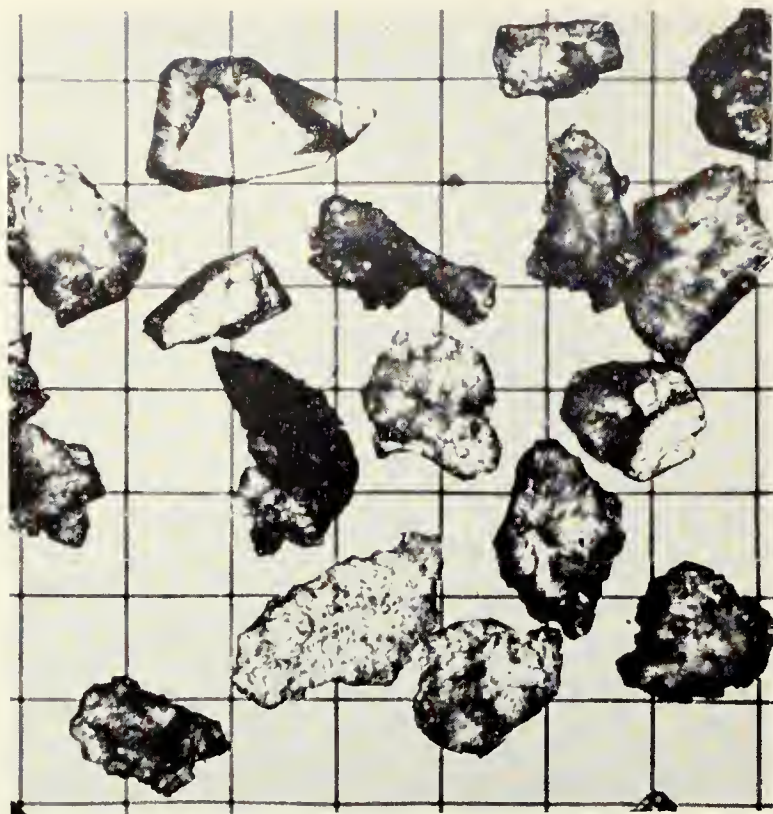
Platinocyanide of magnesium crystals, $\times 100$, Dark-ground illumination.



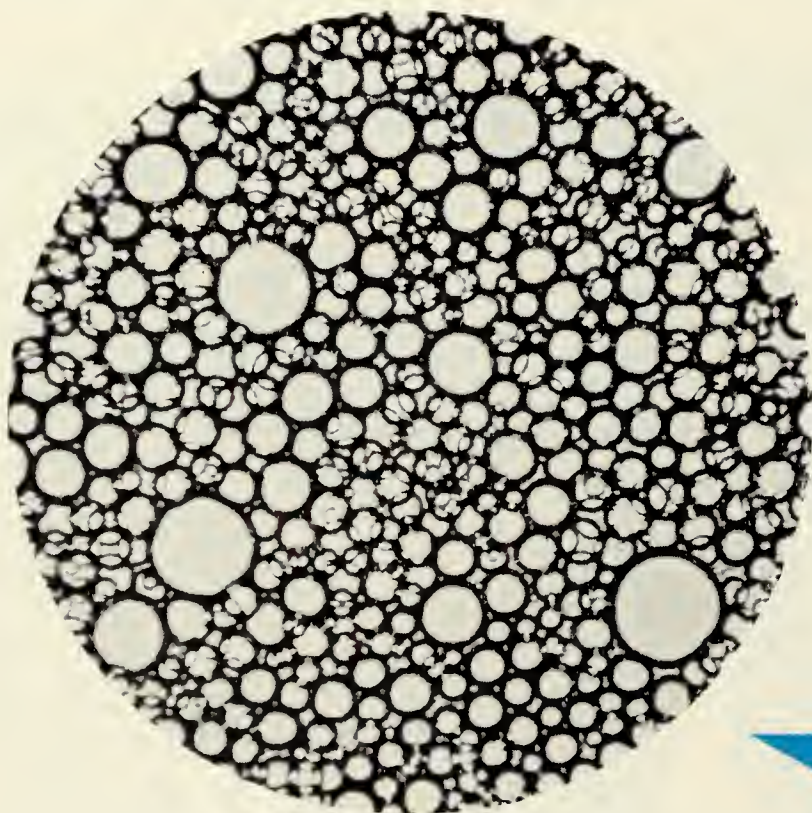
Eggs of house-fly, $\times 30$, Oblique illumination.



Streptococcus pyogenes, Gram-positive coccus, Grown on broth, $\times 2,000$.

ASPIRIN $\times 50$.

Here an eye-piece graticule has been used, making possible the measurement of the crystals. Transmitted illumination.

Oil-in-water emulsion, $\times 300$. Transmitted illumination.

cave surfaces, the concave being used only when working with low-power objectives. The function of the mirror is to reflect light, either directly on to the subject or into the condenser, directing the centre of the cone along the optical axis. In addition to the specially designed Pointolite bulb and the like, the small 12-volt 24-watt coiled filament

gas-filled bulb is efficient and gives an intense light. Probably the most general lamp-house used by the amateur is the home-made one, which normally houses a household electric light bulb. Unfortunately a great deal of heat is produced by that type of lamp.

Most objectives are designed to operate with a tube length of 10 in. A

$\frac{1}{2}$ -in. f/l objective with such a tube length yields a magnification of twenty times. If a times-ten eye-piece is added the image magnification is increased to 200 times, and so the combination of objective and eye-piece controls the magnification when the camera is not being used with bellows extension.

Filters are frequently helpful in this work. For coloured objects their choice follows the usual rules, but it should be noted that a deep filter, especially if blue, generally helps to increase sharpness.

Swinging into Position

It has already been said that the microscope-camera set-up can be used in either horizontal or vertical position. It is quickly swung into position by means of the hinge joint (11), on which it pivots. The objective (21) and eye-piece (5) are placed in position and the drawtube (17) is adjusted to its correct working distance. The specimen (22) is placed into position on the stage (8), and the field is found in readiness to photograph by means of the stage adjustment screws (9) and (10). The objective is now brought down to the level at which it all but touches the slide. That is done by carefully watching the lower objective lens (not when looking down the microscope). It is now possible to work away from the slide by means of the coarse adjustment (6) until the image is clearly seen. The next stage is to correct and centre the lighting by means of the focusing sleeves (26) and (29), after which the mirror (25) and substage focusing adjustment (12) are brought into operation. Having made sure that the illumination is at its best, the operator uses the fine adjustment (7) to obtain critical focusing. Finally, the eye-piece is removed to allow the image of the substage iris (23) to be seen and adjusted in the back lens of the objective. The eye-piece can now be removed and locked into the camera attachment. Before finally focusing on the specimen the filter must be placed into position at (24) or (31). The camera is set in readiness for an exposure to be made (16) and a last view is taken of the image seen in the viewing eyepiece (4) in case the draw-tube or microscope has moved while fitting the camera.

Focusing

In photomicrography it is essential to obtain a critically sharp image of the specimen. To ensure that, some manufacturers have devised a system of crossed hairs which are placed in the focusing plane of the microscope-attachment. That valuable piece of apparatus consists of a number of rectangles occupying the field covered by the camera image. Before the specimen is placed into position, careful focusing is carried out on the crossed hairs.

(*The Technique of Photomicrography, George Newnes, Ltd., London, W.C.2.)

André Philippe

LEAD ON!

★
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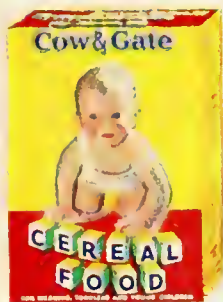
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Flexilette: Twin-lens reflex; two 50-mm. Color-Apotar lenses f/2.8 in helical focusing mounts for ranging and taking; 10-speed Prontor shutter (1/500 to 1 sec.) X-synchronised, action coupled film transport and tension, fully interlocked; split-range-finder in focusing screen



magnifier; hood incorporates vision optical finder. £33 18s.; ever-ready case, £3 10s. 6d.

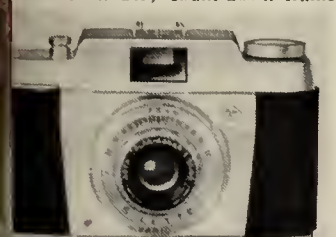
Optima: Fully automatic photographic exposure control; colour signal under indicating whether light is adequate for film in use; 39-mm. Color-Apotar S f/3.9 in special Compur shutter with continuous range from 1/500 to 1/30 sec.; auto system may



engaged to permit flash at 1/30; bright-line finder; symbol-coded zone ranging. £39 2s. 3d.; ever-ready case, £3 10s. 6d.

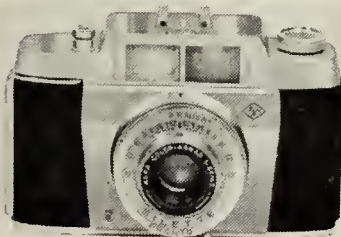
Optima I: Generally similar to model, but with f/2.8 lens in Compur-Lux shutter whose speeds, 1/500 to 1/30, are automatically selected as the film speed setting is made. £38 8s. 8d.; ever-ready case, £3 10s. 6d.

Optima II: As model I but with 50-mm. Color-Apotar in Prontormotor shutter covering nine light values. £39 13s. 10d.; ever-ready case, £3 10s. 6d.



indicator; film speed reminder; accessory shoe, etc. £9 18s. 6d.; ever-ready case, £2 10s. 10d. and £1 9s. 8d.

Agfa Silette f/2.8, four-speed Bright-line: Similar to above but with Pronto



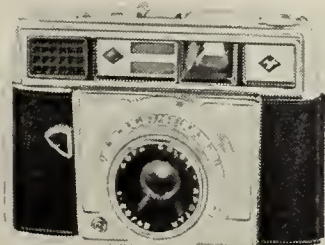
four-speed shutter (1/30-1/250) with delayed-action and X-synchronisation; bright-line finder. £15 17s. 8d.

Agfa Silette f/2.8, nine-speed Bright-line: As above but with Pronto SVS shutter (1/300 to 1 sec.) with light-value scale, delayed action, fully synchronised. £21 0s. 9d.; ever-ready case, £2 10s. 10d.

Agfa Silette f/2.8 ten-speed Bright-line: Fitted with ten-speed Pronto SVS shutter (1/500 to 1 sec.). £24 14s. 2d.; ever-ready case, £2 14s. 6d.

Agfa Super Silette: As above with coupled range-finder. £31 11s. 6d.; ever-ready case, £3 1s.

Agfa Super Silette LK: Semi-automatic version having built-in photo-electric meter coupled with the exposure controls; Pronto LK shutter speeded 1/500 to 1/15 sec., X-synchronisation and delayed action; coincidence of meter needle and marker sets the controls for correct exposure on film in use under prevailing light conditions;



needle visible in bright-line finder; 50-mm. Color-Apotar f/2.8 front cell focusing to 3 ft.; coupled range-finder. £39 9s. 8d.

All the above are by AGFA, LTD., 27 Regent Street, London, S.W.1.

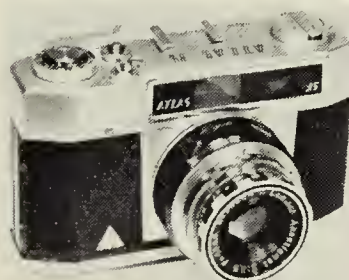
Agima: Single lever transports film, sets shutter and releases shutter; behind-lens Agilux shutter interlocked with transport; interchangeable lenses, 45-mm. Agilux f/2.8 and 85-mm. Agilux telephoto f/5.5. Coupled range-finder combined with bright-line finder with inner frame to mark field of 85-mm. lens. With 45-mm. lens, £19 7s. 6d., 85-mm. lens only, £11 10s. (AGITEX, LTD., Purley Way, Croydon, Surrey.)

Aires Rellex: Pentaprism-type single-lens reflex; 50-mm. Q Coral four-element f/2.8 lens; Seikosha SLV shutter speeded 1/500 to 1 sec.; fully synchronised, delayed-action, cross-coupled diaphragm-wind speed rings, preset diaphragm. Wide-angle and tele attachments available. £39 19s. 6d. (J. J.

SILBER, LTD., 40 Lamb's Conduit Street, London, W.C.1.)

Arette P: Conventional lever-wind miniature; 45-mm. Color Arettar f/2.8 lens in three-speed Vario shutter (1/25, 1/50, 1/200 sec.), large 1:1 bright-line finder. £13 19s. 7d. (PULLIN OPTICAL CO., LTD., Ellis House, Aintree Road, Perivale, Greenford, Middlesex.)

Atlas: Low-priced lever-wind camera; 45-mm. Luminar f/3.3 lens in four-speed flash-contacted shutter; interlock



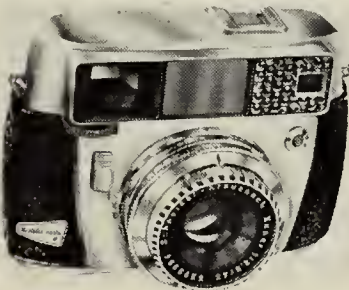
with warning signal; focuses to 3 ft., suspended frame bright-line finder. (JAPANESE CAMERAS, LTD., 50 Piccadilly, Tunstall, Stoke-on-Trent, Staffs.)

Auto Terra Super: Internal spring motor tensions shutter, advances film and exposes seven frames in rapid succession. Light-pressure release button with safety lock; Copal SVL shutter (1/500 to 1 sec.) with delayed-action



and light-value scale; 45-mm. five-element, three-component Plover f/1.8 lens. Price to be announced (expected to be about £42). (MINI-OPTICS, LTD., 983 Finchley Road, London, N.W.11.)

Baldamatic Prontomat: Semi-automatic exposure control; built-in photo-electric meter coupled with shutter controls;



coincidence of needle and marker indicates that shutter and iris are set for film and light conditions. 45-mm. Baldanar f/2.8 lens in Prontomat shutter speeded 1/300 to 1/30 sec., X-synchronised. £29 19s. 10d.

Super Baldamatic: Fully automatic, with

provision for complete manual control; 45-mm. Baldanar lens f/2.8 in Compur Automat shutter speeded 1/500 to 1/30 sec., X-synchronised. Coupling with the photo-electric meter to allow a "point-and-shoot" technique, a needle seen in the finder indicating whether exposure is feasible. Controls may be set in conventional manner if required to enable depth of field or subject motion to be catered for; bright-line finder with automatic parallax correction. £39 19s. 6d. (both from J. J. SILBER, LTD.).

Baldessa Ia: Conventional lever-wind action; suspended bright-line view-finder incorporates automatic parallax indication; 45-mm. Baldanar lens f/2.8 in Pronto SVS shutter (1/500 to 1 sec.) fully synchronised and with delayed-

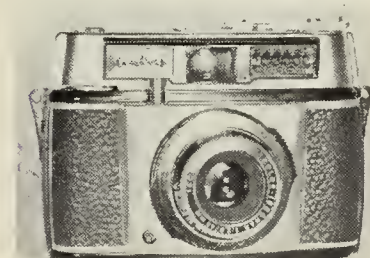


action device; helical focusing coupled to range-finder. £27 12s. 11d.

Baldessa Ib: Specification as for Ia but with the addition of an uncoupled, built-in photo-electric exposure meter. £36 7s. 10d. (Both from J. J. SILBER, LTD., 40 Lamb's Conduit Street, London, W.C.1.)

Bella Super 35: Moderately priced lever-wind camera with interlocked transport and shutter release; bright-line finder; 45-mm. Rodenstock Trinar f/2.8 lens focusing to 3 ft.; No. 4720, Vario shutter, 1/200 to 1/25 X-synchronised, £9 17s. 8d.; No. 4730, with Pronto four-speed shutter (1/250-1/25) with delayed action, X-synchronised, £10 19s. 9d. (ACTINA, LTD., 10 Dane Street, London, W.C.1.)

Bonita Colorset: Colour-coded semi-automatic camera at moderate price; scale of built-in photo-electric meter carries sectors in distinctive colours

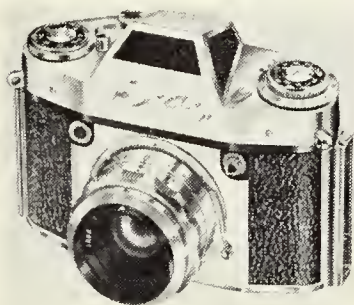


corresponding with similarly coloured sectors on aperture scale; reference by colour sets stop to a value appropriate to film and light. Shutter speed normally 1/125 sec. but extended to 1/30 at the "flash" setting. Calibrated focusing scale with symbol-coded zone settings; 45-mm. Color-Isonar f/2.8 lens in Vario K shutter; bright-line finder. £18 16s. 8d. (ACTINA, LTD.)

Colora: See Zeiss Ikon.
 Colorsnap: See Kodak.
 Contessamatic: See Zeiss Ikon.
 Continette: See Zeiss Ikon.
 Dynamic: See Voigtlander.

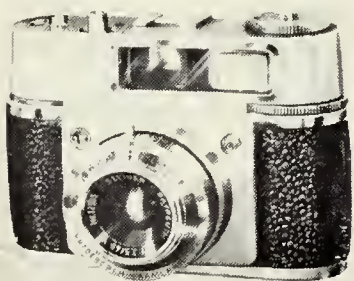
Exa I: Single-lens reflex; lenses and viewing systems interchangeable with Exakta behind lens shutter speeded 1/25, 1/50, 1/100 and 1/150 sec.; separate synchro nipples for expendable and electronic flash; knob-operated film transport, coupled and interlocked with shutter tensioning; Standard lens, helical focusing 50-mm. Meritar f/2.8 in Exakta bayonet mount; with waist-level focusing screen and Meritar, £31 9s. 10d.

Exa II: Modernised version of Model I; fixed pentaprism finder; lever-wound transport and shutter tensioning; eight-



speed focal plane shutter (1/250 to 1/2 sec.) synchronised for FP bulbs or electronic flash. With 50-mm. Meritar lens f/2.8, £42 7s.; with click-stop 50-mm. Tessar lens f/2.8, £48 14s. 4d. (both from K. G. CORFIELD, LTD., 33 Newman Street, London, W.1).

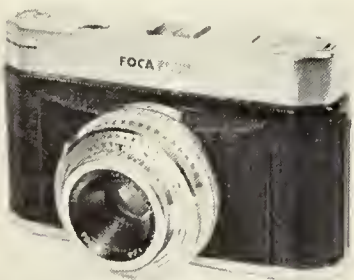
Felinette: A low-priced lever-wound camera with 45-mm. Steiner lens f/3.5



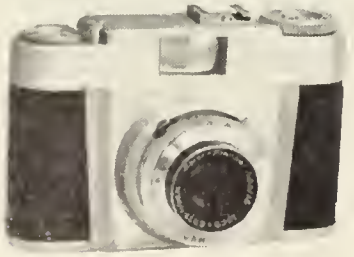
in flash-contacted three-speed shutter; bright-line finder, £8 14s. 4d. (PHOTOPIA, LTD., Newcastle, Staffs.)

Flexlette: See Agfa.

Focaflex: Single-lens eye-level reflex; split-image range-finder; 50-mm. Oplar-Color lens f/2.8 in nine-speed



between-lens shutter (1/250 to 1 sec.) with exposure value coupling, fully synchronised and with delayed action, automatic pre-set iris; lever wind trans-

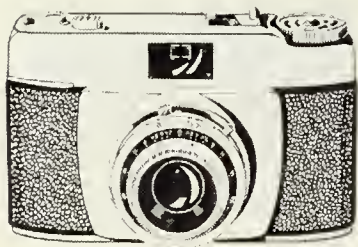


Francolor camera

port, £42 10s. (STEREOGRAMS, LTD., 10 North Audley Street, London, W.1.)

Francolor: Simplified camera designed for colour photography by the non-technical; lever wind; 45-mm. Isco Color Frankar lens f/2.8 in, three-speed flash-contacted Vario shutter; zone focusing, £10 15s. 8d. (R. F. HUNTER, LTD., 51 Gray's Inn Road, London, W.C.1.)

Gnome 35 de Luxe: Lightweight polystyrene and metal body; lever film



transport and shutter tensioning, interlocked; 45-mm. Radionar f/2.8 lens in four-speed Pronto (1/200 to 1/25 sec.) X-synchronised, with delayed-action release; bright-line view-finder with parallax correction, £10 19s. 6d. (GNOME PHOTOGRAPHIC PRODUCTS, LTD.)

Halina 35X: A stout little camera with die-cast body; 45-mm. Halina f/3.5 anastigmat lens in four-speed shutter, X-synchronised; front-cell focusing to 3 ft.; direct-vision optical view-finder; all controls accessible and visible from above, £7 13s. 3. (J. J. SILBER, LTD.)

Ilford: See Sportsman and Sportsmaster.

Kristall K: Strongly resembles Leica in design; accepts screw-thread Leica lenses; focal-plane shutter speeded 1/1000 to 1/20 sec. (twelve speeds) synchronised for electronic flash at 1/20 and expendable bulbs at three speeds; enclosed optical view-finder. Body only, £20 4s. 3d.; A range of Staebel lenses is available at from £9 2s. 5d. each. (APPARATUS & INSTRUMENT CO., LTD., 36 Grove Road, Hounslow, Middlesex.)

Kristall R: Specifications as for standard model but incorporating coupled range-finder combined with view-finder; couples with Leica lenses. Body only, £31 2s. 6d. Staebel lenses at from £9 12s. 1d. each. (APPARATUS & INSTRUMENT CO., LTD.)

Kodak Colorsnap 35: Lever film advance; disengageable interlock for intentional superimposition or in case of bulb failure; 43.9-mm. Anston f/3.9 front cell focusing down to 2½ ft. in self-setting Dakon shutter, flash-contacted. Symbol-coded zone focusing; simple dial-type exposure calculators



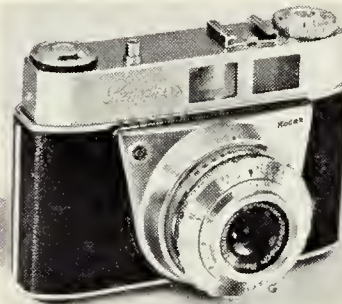
for normal light and flash, £10 15s. 1d. (KODAK, LTD., Kingsway, London, W.C.2.)

Kodak Retina IB: Folding type with hinged lens panel cover; lever-action film transport and shutter tensioning, interlocked; 50-mm. Schneider Xenar f/2.8 lens focusing from 3 ft. to infinity with two zone points; ten-speed Synchro-Compur shutter, fully synchronised and with delayed release mechanism, exposure-value coupled. Built-in photo-electric exposure meter for reflected or incident light registering exposure value figures; bright-line optical finder with parallax correction



marks at 3 ft. £41 17s. (KODAK, LTD.)

Kodak Retinette IA: Single-stroke lever transport and shutter setting, full interlock; 50-mm. Reomar f/3.5 focusing down to 3½ ft. in Vero shutter speeded 1/120 to 1/30 sec., X-synchronised;



bright-line eye-level finder with parallax marks for 3½ ft. £15 19s. 8d. (KODAK, LTD.)

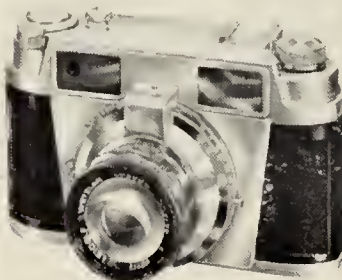
Kodak Retinette IB: Lever wind, etc.; built-in photo-electric meter providing semi-automatic exposure control by alignment of needle and marker; 45-mm. Reomar f/2.8 lens focusing down to 3½ ft. with click-stop zone settings for views, groups and close-ups; Pronto LK shutter with six speeds, 1/500 to 1/15 sec. with X-synchronisation and delayed action. Exposure marker obscured when light is too dull; click stops on shutter-speed ring, £27 18s. (KODAK, LTD.)

Kodak Retinette IIA: Specification basically similar to that of model IB but fitted with Prontomat shutter speeded 1/300 to 1/30 sec. which automatically sets a suitable speed/aperture combination for the prevailing light and speed of film in use. Marker obscured when light is too dull. Automatic system disengageable for flash at 1/30 sec.; two-point zone focusing; sliding depth of field pointers. £33 14s. 3d. (all from KODAK, LTD., Kingsway, London, W.C.2.)

Lordomatic II: Lever-operated and coupled film transport and shutter tensioning; semi-automatic exposure control based on Prontor SVS shutter; nine-speeds, 1/300 to 1 sec., fully synchronised, delayed action; coupling with built-in Metrawatt photo-electric meter sets exposure suited to film and light conditions when marker coincides with meter needle; 1:1 bright-line finder; zone focusing; 50-mm. four-element Lordonar lens f/2.8, £36 19s. 4d.

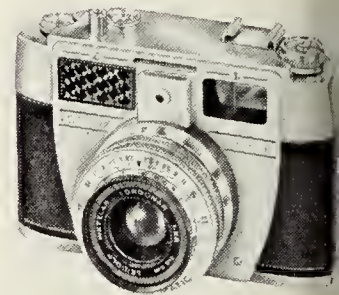
Lordomatic IIR: Basically similar to model II but incorporates coupled range-finder combined with the view-finder, £42 8s. 7d.

Lordomat SE: Lever transport/shutter-wind; wide-base range-finder combined with 1:1 luminous-frame view-finder coupling with focusing movement; interchangeable lenses; Prontor SVS shutter



speeded 1/300 to 1 sec., fully synchronised and with delayed action; with 50-mm. Lordonar lens f/2.8, £39 10s. 6d.

Lordox Automat: Automatic exposure control based on Prontor-Matic shutter which selects stop appropriate to shutter-speed setting; built-in Metrawatt meter; automatic system may be di-

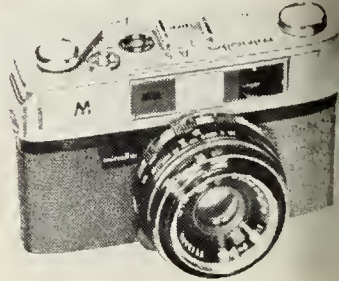


engaged for flash at X-synchronisation usual lever transport/shutter-wind; parallax-indexed 1:1 bright-line finder; symbol-coded zone focusing; 50-mm. Lordomat lens f/2.8, £41 19s. 11d. The Lordomatic, Lordomat and Lordox cameras are from PHOTO-SCIENCE, LTD., 168 Wandsworth Bridge Road, London, S.W.6.

Lynx: See Yashica.

Minolta Unimat: Lever-operated film transport coupled with shutter tensioning; semi-automatic exposure control by coincidence of marker with meter needle; single-ring control selects suitable combination of aperture and shutter speed; coupled range-finder combined with bright-line view-finder; 45-mm. four-element Rokkor f/2.8 lens helical focusing to 3 ft.; seven-speed Optiper shutter (1/1000 to 1/8 sec.) fully synchronised and with delayed action; automatic system may be disengaged for flash, etc. £38 6s. 2d.

Minolta A5: Similar to Unimat but without meter and auto-control; helical focusing 45-mm. Rokkor f/2.8



nine-speed Optiper shutter (1/1000 to 1 sec.) with X- and M-synchronisation delayed-action release; combined bright-line view-finder and range-finder, £33 9s. 1d. (both from JAPANESE CAMERAS, LTD.).

Olympic: See Regula.

Olympus: Sub-title, "Auto Eye"; advance fully automatic exposure control; provision for booster cell



increase sensitivity of meter; preview button displays aperture value in window before exposure to enable adjustment to be made if desired; suspended luminous frame finder combined with coupled range-finder; snapshot focusing with click stop; ten-speed fully synchronised shutter with delayed action; flash exposure dial, set to guide number of bulb in conjunction with focusing system, automatically sets aperture. Four-element f/2.8 lens; lev-

self-zeroing counter; inadequate signal; folding rewind crank, etc. £19s. 6d. inc. ever-ready case. N OPTICAL CO., LTD.)

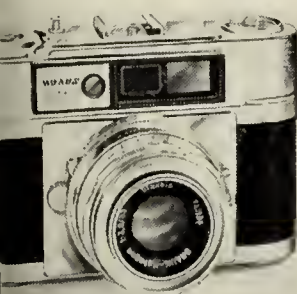
See Agfa.
4: Claimed the smallest 35-mm. making twenty-four 36-mm. frames; lever transport and shutter combined bright-frame viewfinder and coupled range-finder; 45-



Luminor lens, f/2.8 with helical focusing to 3 ft., fully synchronised shutter speeded 1/500-1/10 sec.; small size permits two extra exposures normal cassette, £17 18s. 5d. (K. G. CORFIELD, LTD.)

Polomat II: Lever-action film transport shutter cocking; luminous frame 50-mm. Enna f/2.8 anastigmat nine-speed Prontor SVS shutter exposure-value coupling, X- and Y-synchronisation and delayed action, £27 5s.

Paxette II: Basically similar to Polomat II but fitted with coupled range-finder combined with bright-line



finder and 50-mm. Katagon lens also in Prontor SVS shutter, £35 6d.

Paxette 2BL: Interchangeable-lens version; coupled range-finder combined with bright-line viewfinder; Prontor SVS shutter; built-in photo-electric exposure meter. With 50-mm. lens f/2.8, £46 4s. 1d.

Paxette 2L: Specifications as for Paxette 2BL but without exposure meter. With Katagon lens, £31 2s. 11d.; with Cassar lens, £35 4s. 7d.; with f/2.8 Zeiss lens, £41 12s. 2d.; with f/2.8 Zeiss lens, £48 18s. 8d.

Electromatic II: Provides fully automatic exposure control, which may be disengaged if required; four-element Ultralyt lens f/2.8 in Prontor-SVS shutter speeded 1/300 to 1/30 sec. focusing scale with two zone settings; bright-line finder with parallax correction and exposure signals (green light adequate, red if not). £35 6d.

Electromatic IIS: Similar to Electromatic II but with fixed focus three-element lens, £41 19s. 6d. (All from J. BROWN & CO., LTD., 77 New Street, London, W.1.)

Gold Star: Periscope focusing which small central area of image is examined under magnification; operates split-image range-finder; interchangeable lenses, Leica thread; optical viewfinder by interlocking of front lens; focal-plane shutter speeded 1/300 to 1 sec.; lever of film and shutter; epicyclic counter mechanism ensures exposure in both directions to facilitate re-exposure when replacing partially exposed film; have been removed; rectilinear focusing (to 10 in. with 50-mm.

lenses). With f/2.8 Lumax lens, £45; with six-element Color-Lumax, £49. (K. G. CORFIELD, LTD.)

Polo (Adox): Lightweight polystyrene and metal body; usual single-stroke lever transport and shutter setting; enclosed optical eye-level finder; three-speed flash-contacted shutter; 45-mm. Adoxar f/3.5 focusing to 3½ ft. £8 13s. (GNOME PHOTOGRAPHIC PRODUCTS, LTD.)

Polomat: Semi-automatic exposure control by alignment of red and white indicators; 45-mm. Schneider Radionar lens f/2.8 in Pronto-LK shutter speeded 1/500 to 1/15 coupled with photo-electric meter; X-synchronised; delayed-action release, £22 19s. 6d.

Polomat II: Fully automatic exposure version; Prontor-Lux shutter sets exposure according to film speed and light strength; zone-focusing 45-mm. Radionar lens f/2.8 with calibrated distance scale; bright-line finder with parallax indication; provision for flash, £27 5s.

Polomat IIS: Specifications generally as for model II but automatic system may be disengaged to allow of full manual control. Price to be announced (approximately £45). (Polomat and Polomat II from GNOME PHOTOGRAPHIC PRODUCTS, LTD.)

Praktica IV: Single-lens reflex; fixed pentaprism viewing system; lever wind; focal-plane shutter 1/500 to 1/2 sec. F-X-synchronisation; interchangeable lenses; provision for operation of auto-



matic diaphragm release; with click-stop 50-mm. Meyer f/2.9 lens, £39 19s. 10d. (J. J. SILBER, LTD.)

Regula L R1: Conventional-type lever-wind miniature; 45-mm. Steinheil Cassar f/2.8 lens in four-speed Pronto shutter (1/250 to 1/30 sec.), X-synchronised and with delayed-action device; bright-line finder, £15 11s. 3d.

Regula L R2: As above but with nine-speed Prontor SVS shutter (1/500 to 1 sec.), fully synchronised and with delayed action, £19 8s. 10d.

Regula LE R40: As R2 but with 45-mm. helical focusing Iseonar in Prontor SVS shutter and built-in coincidence-type range-finder coupled with focusing movement, £26 16s. 3d. Ever-ready cases for any of above models, £2 11s. 9d.

Regula L Automatic R43: Semi-automatic model similar to LE but with Prontomat shutter. When needle of built-in photo-electric meter registers



with a marker the aperture is set for correct exposure on the film and light conditions; bright-line viewfinder combined with coupled range-finder, £35 14s. 11d. Ever-ready case, £2 11s. 9d.

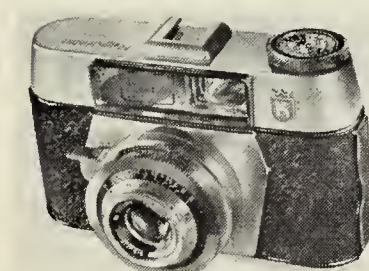
Regula RM R5: Fitted with 50-mm. helical focusing Zeiss Tessar f/2.8 in Prontor SVS shutter (nine-speed, 1/300 to 1 sec.), fully synchronised, delayed action; coupled coincident-type range-finder; built-in, uncoupled, Bewi push-

button light meter; bright-line viewfinder, £38 18s.; ever-ready case, £2 17s. 7d.

Regula Olympia I: Fully automatic version; 40-mm. Auto-Iseonar f/2.8 in Prontor-Lux shutter, the speed of which is decided by the film speed setting. The Bewi exposure meter then adjusts the aperture according to the strength of the prevailing light. Automatic system can be disengaged for flash. On "auto," a green signal in viewfinder signifies readiness for shooting and adequacy of light; red signal is a warning that light is too poor. Three-point zone focusing; bright-line viewfinder, £29 19s. 1d.

Regula Olympia II: Generally similar to model I but incorporates fully automatic Prontomat-S shutter, which has three settings—auto, flash and brief time. Auto setting couples meter with shutter and diaphragm. Aperture may be selected to provide required depth of field, £37 8s. 4d.

Regulette: Lowest priced of the Regula range; lever film transport and film



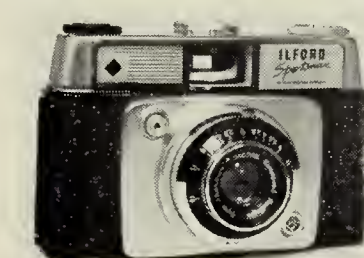
tensioning, interlocked; 45-mm. Cassar lens focusing to 3½ ft. in four-speed X-synchronised Vero shutter (1/30, 1/60, 1/125 and 1/250); bright-line viewfinder with parallax mark, £11 19s. 9d.; ever-ready case, £2 5s. 4d. (all from PHOTOPIA, LTD., Hempstalls Lane, Newcastle, Staffs.)

Retina: See Kodak.

Retinette: See Kodak.

Silette: See Agfa.

Sportsman Vario: Rapid lever wind, fully interlocked; 45-mm. front-cell focusing Dignar f/2.8 lens in Vario three-speed shutter with X-synchronisa-



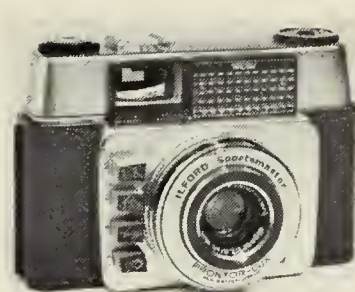
tion; bright-line direct-vision optical viewfinder, £11 19s. 6d.

Sportsman Pronto: Specification similar to Vario but with four-speed Pronto shutter with delayed-action shutter-release mechanism, £15 15s.

Sportsman Prontor-SVS: As basic model but fitted with Prontor-SVS shutter with nine speeds (1/300 to 1 sec.), X- and M-synchronisation, delayed-action release and exposure-value coupling of shutter speed and aperture, £18 17s. 6d.

Sportsman Ranger-finder: Specification as for Pronto but with coupled range-finder for accurate focusing, £19 19s. 11d. Ever-ready cases for above models; Standard, £2 3s. 7d.; de luxe, £3 5s. 1d.

Sportsmaster: New automatic model; 45-mm. Dignar f/2.8 lens in Prontor-Lux shutter which operates in conjunction with a built-in photo-electric circuit. Shutter speeds are preset according to the film-speed setting and the aperture values are determined by the response to light of the photocell. If a green signal is seen in the viewfinder the light is adequate for exposures on the film in use (provided the correct setting has been made); a

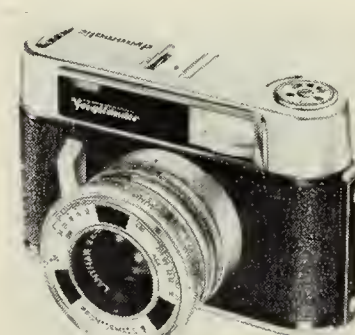


red signal indicates that the light is too dull. For flash and brief time exposures the automatic device may be disengaged. At the flash setting the shutter is set to 1/30 sec. (for electronic or expendable bulbs). An interesting innovation is seen in the four-zone focusing system. There are four symbol-coded shutter-release keys; on pressing the appropriate key the focus is set just before the shutter opens, £28 9s. 8d.; de luxe ever-ready case, £3 4s. 6d. (Sportsman & Sportsmaster from IIFORD, LTD., Ilford, Essex.)

Symbolica: See Zeiss Ikon.

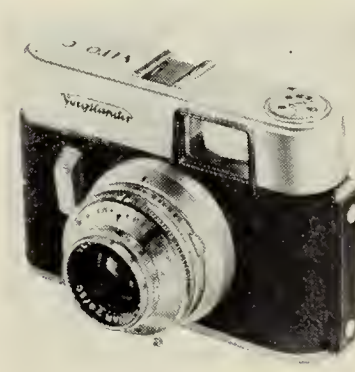
Tenax: See Zeiss Ikon.

Voigtlander Dynamic: Fully automatic exposure control; photo-cells concentric with lens to preclude obscuration by fingers and compensate if filter is fitted; bright-line finder in-



cludes in its field a needle indicating shutter speed; locked needle indicates that shutter is not tensioned; if it is not visible, either camera is not set for automatic working or the light is insufficient or too bright; auto control may be disengaged for flash. 50-mm. Lanthar f/2.8 lens in Prontomat S-V shutter giving infinitely variable progression between 1/300 and 1/30 sec. calibrated focusing scale with three-zone-focus points, £49 19s. 9d.

Voigtlander Vito C: Basic member of a series; lever-actuated transport and shutter tensioning; distinctive release key on front; 1:1 crystal frame finder; retracting rewind knob. 50-mm. Lanthar f/2.8 lens in Pronto shutter (1/250 to



1/25 sec.), X-synchronised, delayed action, £18 6s. 2d.

Voigtlander Vito CD: As above but without built-in photo-electric exposure meter; aperture and shutter-speed rings may be coupled to maintain constant exposure value; two pointers are lined up and the shutter set to the speed indicated, £26 17s. 8d.

Vito & Vitomat: See Voigtlander.

Voigtlander Vito CL: Built-in photo-

electric exposure meter coupled with shutter/diaphragm controls. Aligning marker and meter needle selects aperture appropriate to shutter-speed setting or speed to iris setting. 50-mm. Lanthar lens f/2.8 in Pronto LK fully synchronised shutter with delayed action. £29 18s. 8d. or, with Color-Skopar lens f/2.8, £35 9s. 2d. **Voigtlander Vito CLR:** As Model CL with addition of coupled range-finder combined with view-finder. With 50-mm. Lanthar lens f/2.8, £37 15s. 8d.; with Color-Skopar lens f/2.8, £35 9s. 2d. **Voigtlander Vitomatic 1a:** Semi-automatic model based on Prontor SLK-V shutter with exposure-value coupling and facilities for completely manual setting; coincidence of marker and meter needle—seen in finder and in window in top plate—sets exposure; shutter speeded from 1/500 to 1 sec.; bright-line finder; helical focusing 50-mm. Color-Skopar lens f/2.8 with calibrated distance scale and zone points for candid shots. £44 3s. 6d. (all from JOHNSONS OF HENDON, LTD., 335 Hendon Way, London, N.W.4).

Werra 1b: Unconventional design; film transport, shutter tensioning, etc., effected by rotating outer ring on shutter housing; shutter release flush with top plate; rewind knob in base; bright-line view-finder; Jena F Tessar lens f/2.8; three-point focusing; between lens shutter speeded 1/250 to 1 sec.; X-synchronisation; lens hood reverses to

form protective cap for lens. £18 3s. 6d.

Werra II: Specifications as above but with Vebur shutter (1/250 to 1 sec.); built-in photo-electric exposure meter calibrated in exposure values. £25 18s. 9d.

Werra III: As Model II but with interchangeable lens, Prestor shutter (1/500 to 1 sec.), M-X-synchronisation and delayed action; coupled range-finder. £37 10s.

Werra IV: As model III but with built-in photo-electric meter reading f/stops. £44 9s. 6d. (all from C. Z. SCIENTIFIC INSTRUMENTS, LTD., 12A Golden Square, London, W.1).

Yashica Lynx: Semi-automatic exposure setting by positioning needle in field



seen in view-finder; combined range-finder/view-finder with automatic parallax compensation; 45-mm. Yashinon lens f/1.8 in eleven-speed Copal SV shutter (1/1000 to 1 sec.), fully synchronised, delayed action; lever wind. £47 17s. 10d.

Yashica 35M: Conventional-type lever-wind camera; built-in photo-electric meter indicating exposure values; figure read on meter is set on coupled speed, and aperture rings of shutter select appropriate exposure; ten-speed Copal SVL shutter (1/500 to 1 sec.), M-X-synchronised, delayed action; combined range-finder and bright-line view-finder with automatic parallax compensation; 45-mm. six-element Yashinon lens f/1.9. £38 14s. 9d.

Yashica 35YK: Lever wind; bright-line view-finder combined with range-finder; 45-mm. Yashinon f/2.8 lens in four-speed Copal shutter (1/300, 1/100, 1/50, 1/25), X-synchronised. £17 11s. 8d. (All from PHOTAX, LTD., Charlotte Street, London, W.1.)

Zeiss Ikon Colora: Popular priced bright-line finder model; rapid-lever wind; 45-mm. Novar lens f/3.5 in Pronto shutter (1/250-1/30), X-synchronised; focusing to 3 ft. £15 9s. 10d.

Zeiss Ikon Contessamatic: Automatic camera with the advantages of independent shutter and iris control; 50-mm. Carl Zeiss Tessar lens f/2.8 in Prontor SLK (1/500 to 1 sec.), X-synchronised, delayed action; by pre-setting a suitable shutter speed the camera may be used as an automatic instrument; zone focusing. £47 15s.

Zeiss Ikon Continette: Rapid-lever wind, clear optical finder; 4.5-mm. Carl Zeiss Lucinar lens f/2.8 in four-speed Pronto shutter (1/300 to 1/30 sec.),



X-synchronised and with delayed action. £19 9s. 5d.

Zeiss Ikon Symbolica: Semi-automatic model based on Prontomat shutter, which selects exposure value suited to film in use and available light by the coincidence of an index and marker; disengageable for flash when ingenious exposure calculator comes into play. Provision for direct-connecting Ikoblitz flash-gun or standard gun cable; 45-mm. Tessar lens f/2.8 with

focusing scale and zone points symbol-coded; bright-line finder. £44 6s. 5d. **Zeiss Ikon Tenax:** Fully automatic exposure control; photo-electric mechanism sets speed and iris controls. Prontomat shutter to give exposure suitable under prevailing light conditions for film for which it is set (so long as meter needle is seen, exposure feasible). Provision for flash; bright-line finder; 50-mm. Tessar lens f/2.



calibrated distance scale with symbol-coded zone settings. £49 15s. (All from PEELE & KOMLOSY, LTD., 181 Victoria Street, Dunstable, Beds.)

Zenith C: A Russian product; interchangeable-lens single-lens reflex; fixed pentaprism; five-speed focal-plane shutter (1/500, 1/250, 1/125, 1/60, 1/30) synchronised. Standard lens, screw-threading (Paxette thread) 50-mm. three-element Industar lens f/3.5, helical focus knob winding of transport and shutter supplied with metal self-opening cassette. £29 19s. 10d. (PHOTOPIA, LTD., Zorki 6: Another Russian camera; conventional type focal-plane 35-mm. level miniature; Leica screw-fitting lens flange; range-finder couples with Leica lenses; fully synchronised, with two outlets; lever film transport a shutter wind; shutter time lock; focusing glass 50-mm. Industar lens f/3.5 fitted as standard; supplied with metal self-opening cassette. £23 12s. (PHOTOPIA, LTD., Hempstalls Lane, Newcastle, Staffs.).

Subminiature Cameras

THERE is evidence of a growing interest in cameras making negatives smaller than the popular 35-mm. instrument, known since its introduction as "miniature." It may be remembered that, when the Leica was introduced, it was regarded in many circles as a rich man's toy—interesting but not very practical.

But the 35-mm. changed the face of photography in several ways. Its portability, precision construction, accurate focusing and high-quality optics quite early showed its antagonists that they could be very wrong. All kinds of photographers tried the miniature as a second bow. For many it became the favourite camera because it came near to being the universal camera.

That acceptance of the miniature had another important outcome. It, and the motion picture industry's demands,

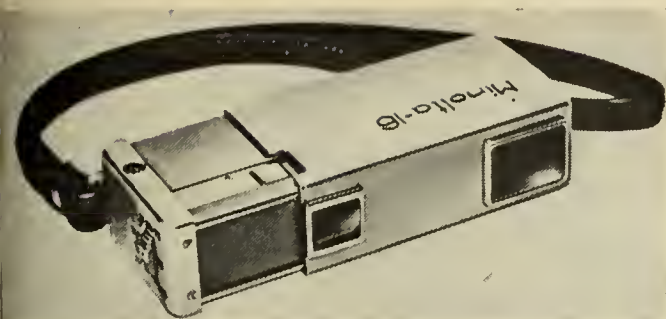
prompted research into emulsion-making techniques directed towards the production of emulsions capable of doing justice to the images produced in the precision camera. Obviously it was senseless to develop the optics and mechanics of the camera and waste the benefits on emulsions of inferior resolving power. The small negatives had to be greatly enlarged to produce prints of a reasonable size; but if the grain structure of the image on the negative was such that it became obtrusive on the print, the grim forebodings of the early prophets of gloom would have come true. But they did not—as the popularity of the miniature in all kinds of photography today amply proves.

The emulsion maker has played a great part, and has evolved emulsions of undreamed-of speeds, so that now it is true to say that, if an object can be seen, it

can be photographed as an "instantaneous" exposure in the existing light. Nor are even those ultra-high-speed films excessively grainy. Fine-grain films of medium speeds—equivalent to those of the "ultra-speed" films of pre-war days, are in day-to-day use. Colour films are being produced today of a speed as high as the fastest monochrome films available in 1939.

Such advances in emulsion production pave the way for a further reduction in negative size. After the success story of the 35-mm. instrument, who would dare to be too pessimistic about its successor, which has been allotted the unfortunate designation "subminiature"?

Not every 35-mm. camera is a precision instrument, but there are models costing a matter of £20 or even less that are being used with success every day. In the "subminiature" field there are cameras which



are nothing more than scaled down box cameras and up to a point they serve their purpose just as did their bulky predecessor the box camera. The best of the type are really marvels of fine mechanics, with optics of commensurate quality. The Japanese have produced several models in their relatively short history of camera manufacture. A fine example is produced in Italy and, of course, there are some that hail from Germany.

Probably the most elaborate subminiature camera is the Italian Ga-Mi, made by Officine Galileo di Milano. Though measuring only $4\frac{1}{2} \times 2\frac{1}{8} \times 1$ in., and weighing only $10\frac{1}{2}$ oz., it has an amazing specification. It takes 16-mm. unperforated film in special cassettes that can be changed with negligible loss of film. The mere fact of opening the camera winds the shutter for three exposures which can, if required, be made in rapid succession—in a second, in fact, when high shutter speeds are used, the film being advanced by the spring motor after each exposure. The frame size is only 12×17 mm. yet 8×10 in. enlargements are well within its scope. One reviewer made three successive exposures of a diver, the first as she left the spring board, the second while she was in mid-air and the third as she entered the water.

The lens is a 1-in. six-element Galileo

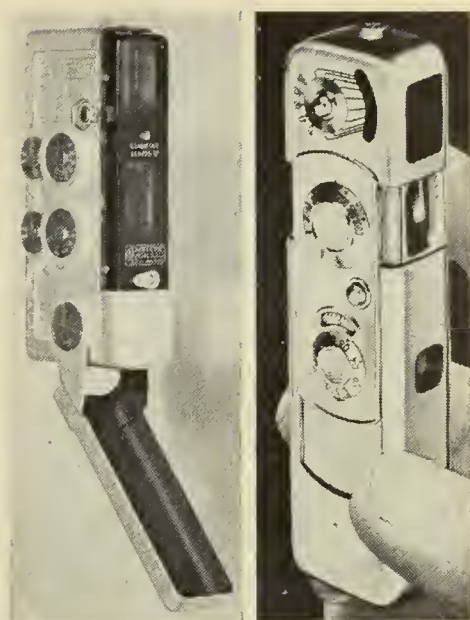
Minolta and Minicord cameras.



The finish is immaculate, satin-finished duralumin, anodised. Naturally such a camera is expensive, and by the time H.M. Customs and Excise have had their cut the price comes to about £150.

Thirty-exposure cassettes of film are priced at 9s. 6d. for Ilford Pan F, FP3 and Ferrania P3, while Ferranicolor loads are 19s. 6d. each. Empty cassettes are sold for loading from bulk film using a Ga-Mi winder. A comprehensive list of accessory equipment includes enlarger, flash-gun, telephoto lens, developing tank, slide holders, x7 viewer, etc. HUGHES MERCHANDISING CORPORATION, LTD., 52 Gloucester Place, London, W.1, are the importers. The Ga-Mi has been discussed fairly fully—though much more could be written about it—because, first, it has such an unusual specification and second because it is not well known in this country.

Perhaps the best known camera in the category is the German Minox. Even smaller than the Ga-Mi, it measures $3\frac{3}{4} \times 1\frac{1}{2} \times \frac{1}{2}$ in. and weighs only $3\frac{1}{4}$ oz. Its frame size is 8×11 mm., and a cassette holds



Ga-Mi and Minox cameras.

of accessory equipment including special developing tank, enlarger, transparency projector, copying arm, reflex and angular view-finders, binocular attachment for telephoto effects, etc.

The camera in its purse, and with a measuring chain for close focusing, retails at £79 12s. 7d. Monochrome film: 18s. 4d. per tin of two. Colour films, Ansco Reversal and Agfacolor Reversal, £1 5s. 7d. each; Agfacolor Negative, £1 0s. 1d., processing extra. PHOTO-SCIENCE, LTD., 168 Wandsworth Bridge Road, London, S.W.6, are the United Kingdom trade distributors.

Somewhat similar to the Minox are the Japanese Minoltas, of which there are two subminiatures, the 16/11 and the 16P. Both take 20-exposure cassettes of 16-mm. film, making negatives measuring $10 \times$

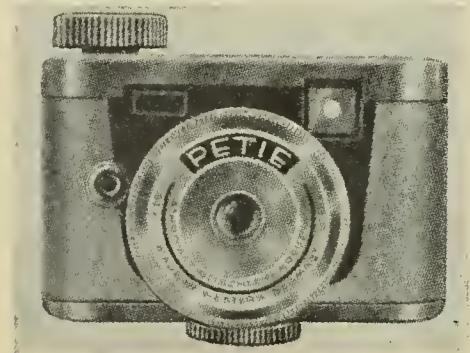


Mee camera.

Esamitar $f/1.9$, and the shutter is speeded $1/2$, $1/5$, $1/10$, $1/25$, $1/50$, $1/100$, $1/250$, $1/500$, $1/1000$ sec. and B. The camera is synchronised for electronic flash and expendable bulbs (at speeds of $1/25$ and longer), and there is an iris diaphragm closing to $f/11$.

Not only has the camera a fine lens and shutter but it has also a coupled range-finder; built-in extinction-type exposure meter combined with the view-finder, which has automatic parallax compensation; and a built-in yellow filter that is accounted for in the exposure meter.

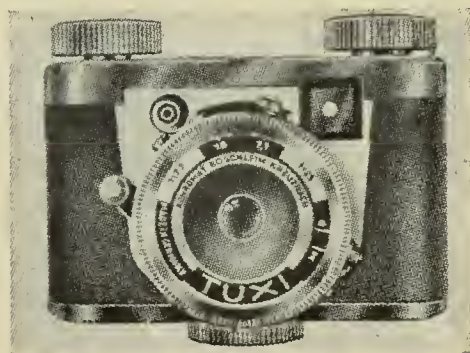
Safety devices are embodied such as the red signal which appears when the camera is unloaded or the film is finished, and the automatic release lock that operates when the camera is closed or unloaded. A warning, "Tripod," appears in the view-finder when shutter is set to $1/25$ or slower.



Petie camera.

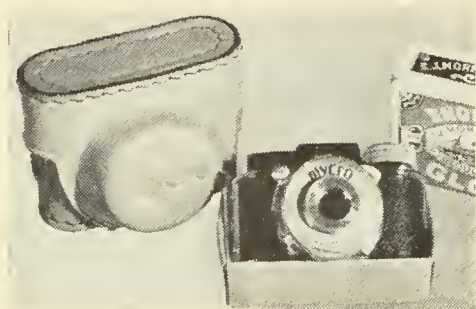
sufficient film for fifty exposures. (Thirty-six of colour film.) The current model (Minox B) has a photo-electric exposure meter coupled with the shutter, which is speeded $\frac{1}{2}$ to $1/1000$ sec. and is X synchronised. The lens is a four-element 15-mm. Complan with a fixed aperture of $f/3.5$ and a focusing movement from 8 in. to infinity. There is no range-finder—hardly necessary for so short a focus lens—but there is automatic parallax compensation of the view-finder by coupling with the focusing system. An orange and a green filter are built in.

Closing the camera advances the film and tensions the shutter. Opening it (by drawing the two sections apart) uncovers lens and release button. Monochrome films for it are issued by Agfa and Adox, in speeds from 10 to 21° DIN, colour films by Agfa and Ansco. There is a selection



Tuxi camera.

40 mm. The more elaborate model, the 16/11, is prepared for exposure by traction on one end of the camera, an operation that uncovers lens, view-finder and release key. The camera has a three-element 22-mm. Rokkor $f/2.8$ lens, fixed focus, and a focal-plane shutter with six speeds ranging from $1/30$ to $1/500$ sec., X-synchronised. At full aperture the depth of field extends from $6\frac{1}{2}$ to $10\frac{1}{2}$ ft. ($3\frac{1}{2}$ ft. to infinity at $f/16$). There is no parallax compensation on the view-finder. Supplementary lenses are available for closer and distant focusing. The dimensions are $3\frac{1}{2} \times 2 \times 1\frac{1}{4}$ in. and the weight is $6\frac{1}{2}$ oz. JAPANESE CAMERAS, LTD., 50 Piccadilly, Stoke-on-Trent, are the importers and the price is £16 15s. 5d.; monochrome films sell at 6s. 4d. each and Anscochrome Reversal loads at 12s. 8d. The simpler version, the Minolta 16P, does not extend, but the film



Mycro camera.

is advanced by operating a wheel in the back. The controls have been simplified for the non-technical user by incorporating a single-speed shutter (approx. 1/50 sec.) X-synchronised and a simple exposure calculator based on symbols is incorporated. The lens is a fixed focus 25-mm. Rokkor f/3.5. The price of the camera is £9 13s. 7d. Accessories of interest to users of either model are available, including empty cassettes for loading from bulk 16-mm. movie film, tank, filters, enlarger, slide frames, etc.

Also from Japan, and distributed by Japanese Cameras, Ltd., is the Mycro IIIa, looking rather like a scaled-down version of a conventional 35-mm. camera. It takes spools of 14-mm. wide film, sufficient for ten exposures.

A 20-mm. fixed focus Una f/4.5 lens in a two-speed shutter (1/25 and 1/100), flash contacted, is fitted. The price is £3 16s. 6d. including a case, and films are supplied in boxes of six at 8s. 6d. each.

A quite different type of camera emanates from C. P. Goerz, Vienna, Austria: the Minicord, introduced in 1953. Its distinctive feature is its focusing/viewing system. The camera is in fact a twin-lens reflex, taking and viewing lenses being coupled. The image is not laterally reversed. Film (16-mm. perforated), is loaded in twin cassettes holding sufficient for forty exposures 10 mm. square. A quick-action trigger advances the film and tensions the metal focal-plane shutter, speeded 1/10 to 1/400 sec. with X-synchronisation. The lens is a 25-mm. Goerz Helgor, a six-element objective with a maximum aperture of f/2, with helical focusing down to 12 in. A precision instrument throughout, its price, £49 5s. 3d., must be regarded as reasonable when comparisons are made. The range of accessory equipment includes an enlarger, tank, projector, etc. APPARATUS AND INSTRUMENT CO., LTD., 36 Grove Road, Hounslow, Middlesex, are the importers.

From Czechoslovakia comes the Microma II, looking like a diminutive 35-mm. miniature. It takes 16-mm. film, perforated or unperforated, in cassette that can be loaded for up to fifty exposures. Like its larger counterparts the camera has a quick lever-actuated film transport and shutter tensioning system, fully interlocked. As the film is used it is fed into a take-up cassette.

A helical-focusing 20-mm. Mirar triplet f/3.5 lens is fitted, the closest focusing distance being 17 in. Behind it is a metal-blind shutter speeded 1/5 to 1/400 sec. in seven steps and X-synchronised. An enclosed direct-vision optical view-finder is fitted immediately above the lens.

DAVID WILLIAMS (CINE EQUIPMENT), LTD., 5 Glasshouse Yard, London, E.C.1, are the importers, and the price is £16 16s. Prices of load are: FP3 (fifty-exposures), 11s. 3d.; Anscochrome (thirty-six expo-

sure), 12s. 6d., plus 7s. 6d. processing. A tank, projector, etc., are available.

A really pocketable little camera is the Mec, a product made by the German firm Feinwerktechnik and distributed by J. J. SILBER, LTD. There are two versions; Standard and SB. Each measures 4 x 2½ x 1½ in., and weighs about 8 oz. Special twenty-four-exposure cassettes of 16-mm. perforated film is used, and the frame size is 10 x 14 mm. Transport is by rapid-lever action, which also tensions the metal focal-plane shutter speeded 1/30 to 1/1000 sec. and X-synchronised. On Model SB there is a choice of lens. The model with the 20-mm. four-element Color Ennit f/2.8 lens is priced at £38 19s. 11d.; with the six-element Rodenstock Heligon, f/2, £45 15s. 6d. A novel feature in design is the bridge-like structure, which retracts into the body to protect the lens when the camera is in use and, as likely as not, carried in the pocket. It also locks the release and carries the optics of the view-finder. Helical focusing to as close as 12 in. is provided. A built-in photo-electric exposure meter presents its cell behind the lens and, by an ingenious coupling system with

shutter and iris controls, indication that their combination is correct is obtained when the meter needle registers with a marker index. The cell swings clear immediately prior to the release of the shutter. A filter slot is provided and of course the meter automatically makes adjustment when a filter is in position. The Standard version is essentially similar, except that it is not fitted with the exposure meter and that the Color-Ennit is standard. The price is £28 19s. 10d. Black-and-white films are supplied in pack of two films at 14s. 4d., Anscochrome at 19s. 2d. for two.

Less pretentious little subminiatures are the Tuxi and the Petie, distributed by W. M. STEINHARDT, 26 Monarch Court, Lyttelton Road, London, N.2. The Tuxi has an f/7.7 Proxar achromat lens and a single-speed shutter, with lens hood and yellow filter, and sells at £5 11s. 7d. The Peties have f/9 lenses. No. 1 a meniscus, No. 101 an achromat. The prices are £1 19s. 3d. and £3 1s. respectively. J. J. Silber, Ltd., also supply Model No. 1. All take negatives 14-mm. sq. on special roll film of sixteen exposures — monochrome and colour are available.

Screen

Survey

DEREK
TOWNSEND,
M.B.K.S., A.I.C.F.



IT is a strange fact that many people spend a great deal of money on first-class cameras and projectors while firmly believing that it is quite satisfactory to view their transparencies or cine film on an old sheet.

Compared with the cost of the other equipment, a screen represents only a small additional expenditure, yet it is essential for a top-quality performance. Another peculiar fact is that, once the customer has started to view his transparencies/films on a "mocked-up" screen, it is difficult to convince him how much he is missing. Ideally, a screen sale should, therefore, be made at the outset and at that time the buyer is particularly receptive. Undoubtedly the opportunity for a sale is often overlooked, but in order that

any queries may be answered and that the proper sales story may be told I have compiled the following information for easy reference.

For normal forward projection there are basically three main types of screen material—matt white, beaded, and silver. (N.B.—Forward projection is, of course, the most usual system, and means viewing the screen by reflected light as seen in the cinema.)

MATT WHITE: For the smaller picture a matt white screen is sufficient. It gives equal contrast in the picture when viewed from the front of the screen or from any point within a wide angle. That means that people sitting to one side of the screen see just as bright a picture as those directly facing the centre. Most manufacturers use their own individual trade name for this type of surface. Example: Blanka white.

SILVER: A silver screen gives a much more brilliant picture than the matt white, but only when it is viewed from a position that is within approximately 35° from a line at right angles to the centre of the screen. Outside that area the brilliance falls off considerably. Some makers claim that the brilliance increase over a matt white is as high

In title: The Da-Lite beaded screen with tripod legs. The apparatus folds into its own self-contained portable case.

s 100 per cent., but that, of course, would apply only within the 35° angle. The silver screen is particularly useful in a rectangular room.

BEADED: The beaded type of screen material has small round glass beads sprayed on to a white surface and fixed with adhesive. It has been claimed that the beaded surface can give a 30 per cent. brighter picture than the silver, but here the effective critical angle is usually even less than 35°. Because the beaded screen also gives a brighter picture when viewed from the centre, it is more suitable for use in a long narrow room. Where projector light output is low, or the room cannot be fully darkened, the silver or beaded screen may be essential, and in that case the seating should be arranged accordingly. A viewer at 20° to the screen will see a picture only about one-sixth as bright as that seen by a viewer at 5°. Screens should preferably be placed against a dark background and not against or on anything that is lightly toned, otherwise they give rise to annoying reflections. Unlike television, the picture should be viewed in total darkness if the colours are to be shown to their best advantage.

LENTICULAR EMBOSS: Some manufacturers offer what is known as a lenticular emboss, claimed to give the optimum brightness at the widest angle.

Picture Size

It is important to remember that the intensity of light per sq. ft. varies inversely as the square of the increase in linear dimensions." That means that, when the linear dimensions of the screen are doubled, the area to be covered is increased four times. In other words, the larger the picture the less is each sq. ft. illuminated. A short-focal-length lens gives a larger picture for a given throw than one of longer focal length. The above table (top) shows the picture size obtained from 16-mm. film with lenses of various focal lengths at different throws.

Other sizes for any film and focal length lens may be calculated from the following equation:—

$$w = \frac{d - l}{1} \times f$$

where w = width of screen

d = distance from screen

l = focal length

f = width of frame

The screen should always be, in a position in which everyone can see it without straining. The bottom of the screen should be a fraction above eye level when the audience is seated.

With rear projection, the projector is placed on one side of the screen and the audience on the other. In that situation a special translucent material is utilised and the projected picture is

Size of screen (ft.)	Distance in ft. from projector to screen for given size of picture					
Focal length of lens	1 in.	1½ in.	2 in.	2½ in.	3 in.	4 in.
3 × 2.25	7.9	11.8	15.8	19.8	23.6	31.8
5 × 3.75	13.2	19.8	26.4	33.0	39.6	52.8
8 × 6	21.2	31.6	42.2	52.8	63.3	84.5

actually seen through the screen material. By that method the picture is seen by transmitted light, and the brilliance and colour rendering are usually first-class. Once again, however, brilliance falls off rapidly outside a 30–35° angle.

Apparatus Commercially Available

A selection of currently available screens from some of the more prominent manufacturers and distributors is given below:

ACTINA, LTD.: A wide range of MW screens in either beaded or matt white finish. The range includes the popular *Excelsa-Plus*, a self-erecting model at £15; tripod screens, 40 × 30 in. from £4 15s.; free-standing screens (*Stevo*) from £1 15s. All matt white screens are mechanically woven from double-threaded material to prevent crinkle and curl.

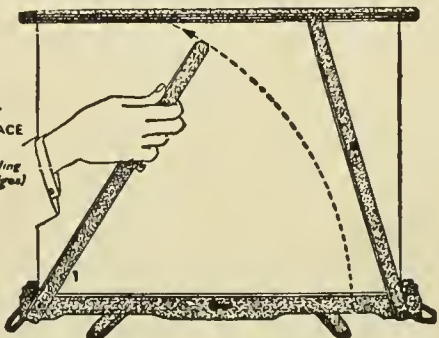
The Stevo screen. Two struts fit firmly into grooves of the upper roller thus ensuring rigid frame and flat screen surface.



or may be suspended from picture rail or hook.

size in.	beaded s. d.		matt white s. d.	
26 × 20	52	6	42	0
30 × 30	78	0	59	0
40 × 30	79	0	70	0
50 × 40	119	0	95	0
60 × 45	158	0	130	0
71 × 53	310	0	199	0
83 × 63	350	0	247	0

PULLIN OPTICAL CO., LTD., are agents for Radiant screens, made in the United States. In the range are: Radiant *Meteor* with glass beaded surface with rigid, easily set up tripod and strong case; height adjustable in three



BOOTS, LTD., supply *Simplex* screens made in Italy. They have matt white lenticular surface. Complete with hook for hanging or legs for standing. Models available from under £2.

R. F. HUNTER, LTD., supply the following screens:—*Starlight Junior* with tripod support. Lightweight and easily portable, simple to erect; *Safari:*

size in.	beaded s. d.		matt white s. d.	
<i>Starlight</i>				
31½ × 23½	92	6	87	6
40 × 30	102	6	95	0
50 × 40	155	0	147	6
<i>Safari</i>				
31½ × 23½	67	6	62	6
40 × 30	77	6	70	0
50 × 40	100	0	92	6
<i>Huntsman</i>				
31 × 23½	85	0	80	0
40 × 30	95	0	87	6
50 × 40	147	6	140	0
63 × 47	270	0	250	0

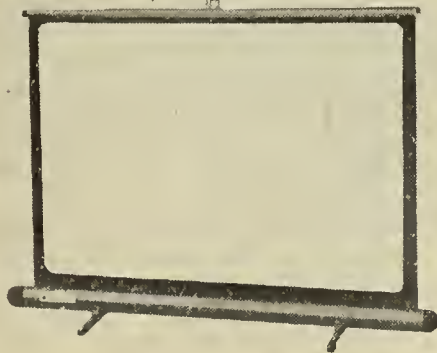
a lightweight screen with spring blind-roller action, steel supporting rod housed in tube when closed; and *Huntsman:* A portable table model, light in weight. Rolls up into a metal tube when not in use.

NEVILLE BROWN & CO., LTD., supply *Lumaplak* screens in either matt white or beaded. Tubular metal side supports enable erection to be carried out in a few seconds. The screens stand on their own feet on any surface

size	Meteor s. d.		Imperial s. d.		Picture-master s. d.	
40 × 30	99	6	259	6	175	0
50 × 50	159	6	379	6	235	0

sizes. Radiant *Imperial Colormaster:* A lenticular screen; strong, rigid metal tripod; rapid leg lock; levelling device. Radiant *Picturemaster:* Matt white surface; fungus and flame-resistant washable material; rapid leg-lock tripod; strong case; lightweight design; adjustable height.

The company also supply the *Supa-Vue de luxe* table screen, finished in polished mahogany with rigid side stretchers to provide a taut surface, and folding feet to give a steady sup-



The Huntsman table model screen which rolls up into a metal tube for storage.



The Pullin Supa-Vue Everyman's box screen.

port; in three sizes: 24 × 24 in., 40 × 40 in. and 48 × 48 in. at 59s., 88s. and 105s. respectively.

RANK PRECISION INDUSTRIES, LTD., offer a range of screens which includes: *Da-Lite* beaded screen, with sturdy tripod legs, which automatically locks in position. Folds away into its own self-contained portable case. Two sizes: 40 × 30 in. at 99s. 6d. and 50 × 50 in. at 159s. 6d. *Miralyte* portable wide screen, adjustable for Cinemascope; wide screen, and standard film ratios. Erected in a few minutes and dismantled into four portable units. Size when fully extended, 15 × 6 ft.; matt white at £60 and beaded, £75. The *Miralyte* rear projection screen is also portable. Picture

size: 26 × 20 in.; weight, 40 lb.; supplied complete with stand, £27 10s. *Miralyte de luxe* tripod screens are issued in the following range:

size	matt white			beaded		
in.	£	s.	d.	£	s.	d.
60 × 45	17	10	0	19	10	0
60 × 60	19	0	0	21	10	0
72 × 54	24	0	0	27	0	0

Other makers or suppliers of screens include:

PHOTAX (LONDON), LTD., *Estra* screens.

JOHNSONS OF HENDON, LTD., *Luxor* (bead or white surface) in four models.

GNOME PHOTOGRAPHIC PRODUCTS, LTD., *Gnome* lightweight.

PHOTOPIA, LTD. Roll (W.W.100).

Equipping a

SOME POINTS FOR

Dark-room

OF INTEREST THE AMATEUR

THE overriding factor the amateur usually has to consider when setting out to furnish a darkroom is one of expense. Bearing that in mind, he is confronted with the problem of selecting equipment that is both reliable and within the range of his pocket. Here there is such a wide choice that it is often difficult to weigh up the merits of one brand over another—if, indeed, any such differences exist. The main aim of this article is to suggest a method of going about the job that takes into consideration the limited amount of time, money and technique normally at the amateur's disposal.

It may be mentioned here that JOHNSONS OF HENDON, LTD., market a range of home developing and printing outfits that suit all the basic requirements for processing and do not require an elaborate darkroom to produce satisfactory results. The following information is intended more for the keen amateur who is thinking of eventually attaining some measure of individuality in technique.

Dealing first with the location of the proposed darkroom: that old favourite—the bathroom—seems to be most popular, mainly because it provides easy access to water. A garden hut may provide a useful alternative, but one snag with outside buildings is how to keep them at a steady temperature throughout the year.

For those who wish to install a dark-room heater, PULLIN OPTICAL CO., LTD., market the Plug-stat thermostat. It can be plugged into a 13- or 15-

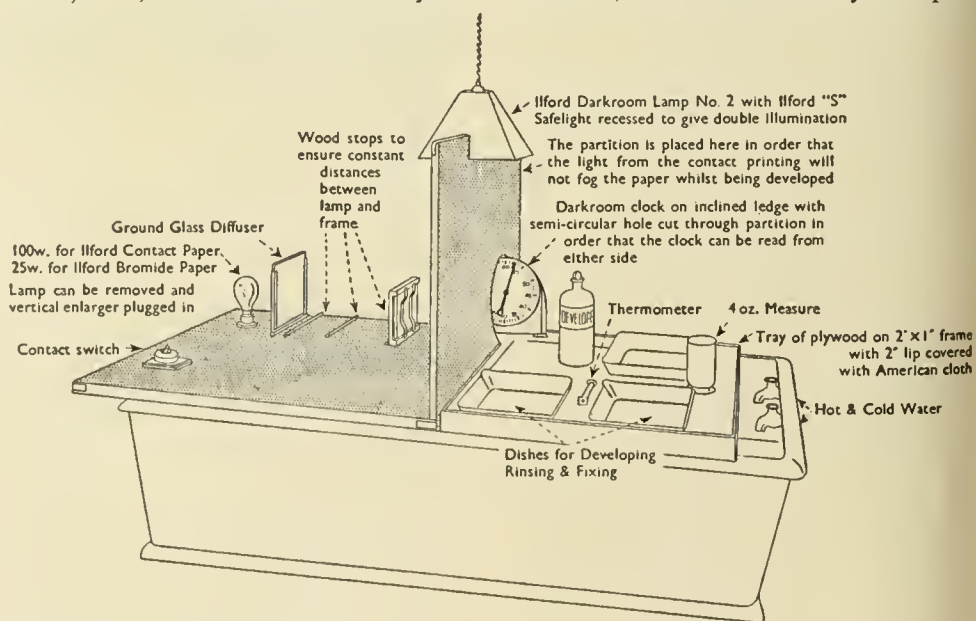
amp. power point, and is designed to control any type of portable or semi-portable space heater.

A water supply is not necessarily the criterion of a good workroom—it is just helpful if you can have it! In making prints it is essential for efficient washing of the finished product, but any sink can be transformed into a reasonable washing unit with the aid of one of the quite inexpensive kits available on the market. A water filter may also be worth consideration.

It is not possible to elaborate on fitting darkrooms with cupboards, drawers for storing papers, fold-away tables, etc.; such items can only be

decided upon where the nature of the place selected permits. One reasonably easy arrangement of apparatus is worthy of note if the bathroom is to be used. The accompanying illustration (reproduced by courtesy of ILFORD, LTD., from the "Ilford Manual of Photography") shows how a portable table unit may be fitted on top of a bath, and an enlarger also may be placed on the left side provided the base is strong.

Having decided on the darkroom itself, one is faced with the question of equipping it. The first consideration, peculiarly enough, is illumination, or more correctly the pro-



Ilford bathroom darkroom.

vision of a safelight. The cheapest available is a plain electric bulb specially tinted so that it is insensitive to emulsions (except panchromatic). Such bulbs are made in five colours by PHILIPS ELECTRICAL, LTD. However, money spent on a proper safelight and filter is well worth while. Prices vary greatly, ranging from 11s. for the Brownie safelight (KODAK, LTD.), which consists of a plastic holder and a set of two detachable filters, up to 90s. for the Kodak Universal model designed to hang from the ceiling and throwing light upwards as well as down on to the working area. Messrs. JOHNSONS and Messrs. ILFORD market intermediately priced safelights. In both ranges the filter is extra, and prices



Paterson safelight.

vary according to size. R. F. HUNTER, LTD., issue the Paterson safelight at 10s. 6d.—a simple type, similar to the Brownie.

Then comes the question of utensils. Only a brief mention of the multiplicity of developing tanks and dishes available on the market is possible. Among reasonably priced tanks are the

popular Paterson range (R. F. HUNTER), the Johnson Roto-Two model and the Nebro tanks (NEVILLE BROWN & Co., LTD.). Developing dishes of stainless steel are a luxury and the more common enamel type are liable to rust and be chipped. Lightweight plastic or xylonite dishes have the advantage of economy and durability—but a word of warning concerning washing stains is necessary. Hot water causes them to warp, and that can have the annoying result of causing solutions to collect in a puddle at one corner of the dish whilst leaving the opposite one high and dry. Polyvinyl chloride Ariosa dishes (PHOTOPIA, LTD.) and the range by Messrs. NEVILLE BROWN are a good investment, as is a three-dish Rocker set (PHOTAX, LTD.).

For disciples (martyrs?) of the hand method of developing, PHOTAX, LTD., offer a developing trough for every width of roll film. It has a roller inside, free to revolve as the film passes underneath, thus keeping it in the solution.

Accessory Equipment

It is worth noting that an ordinary large tray may be converted to an inexpensive print washer using the Kodak automatic dish siphon. Clipped to the side of the dish, it directs a stream of fresh water into it with sufficient force to maintain vigorous agitation, and discharges "hypo"-contaminated water into the sink. For efficient washing of film, there is the Polly film washer (NEVILLE BROWN), which may be fitted with extensions in order to wash several tanks at once.

A dish warmer is recommended for the worker who seeks the controlled conditions of temperature essential for quality results. Such warmers may be obtained from PHOTAX, PULLIN OPTICAL, J. J. SILBER, LTD., or MALHAM PHOTOGRAPHIC EQUIPMENT. An alternative is an immersion heater; for example, the reasonably priced Cavendish (PULLIN OPTICAL).

Other basic equipment includes measures, funnels and beakers for mixing solutions—the polythene variety are by far the best and only a third of the cost of their glass counterparts. Messrs. NEVILLE BROWN market a useful combined stirring rod and thermometer. Paterson thermometers are accurate but possibly a little out of the price range for dish use. The Kodak F140 thermometer has a useful solid rubber ring at the top and may be kept on the corner of a tray without slipping under the solution. Cheaper types are obtainable from ILFORD, JOHNSONS, KODAK, PHOTOPIA, etc. Print forceps are advisable and may be essential for those who have an allergy to metal (an alternative is to use a pair of surgeon's rubber gloves). The Paterson forceps, which are of polystyrene, are designed with moulded non-slip finger grips and roll-point tips. A reliable timer is necessary for the accurate worker, and

Smith's "minutes timer" is one of the best buys.

Other useful pieces of equipment include film clips for drying purposes, made by most of the large manufacturers; also a film wiper by ADEMCO, LTD., which has a "squeeze-ee-ing" action without causing scratching.

An electric print drier can be useful but is not essential for the novice. Driers are available in sizes from 10 x 8-in. up to 24 x 18-in., either single or double sided. Blotting paper of the "fluffless" type, such as "Photo-printo," is recommended for ordinary purposes. For preparing glossy prints, chrome glazing sheets give a better-quality gloss finish than stainless-steel ones, but they are more easily scratched. For rolling wet prints on to glazing sheets, most manufacturers offer squeeze-rollers of various size.

A variety of trimmers of the guillotine pattern are available either with straight cutting or deckle edges, and they are quite adequate for amateur use. Trimmers are available through PHOTO-SCIENCE, LTD., NEVILLE BROWN, PULLIN OPTICAL, ILFORD, etc.

Dry-mounting may be accomplished satisfactorily with a domestic iron, but a separate "tacking iron" helps to make fixing the print and tissue to the mount easier. The thermostatically-controlled electric dry-mounting iron by Johnsons is an expensive item, but well worth consideration. Ademco mounting tissues are available from most wholesalers; if an adhesive is desired, a resin-type mountant such as Copydex is preferable to mounting paste.

To finish the print, JOHNSONS market a spotting outfit for the enthusiast who likes to perfect his work.

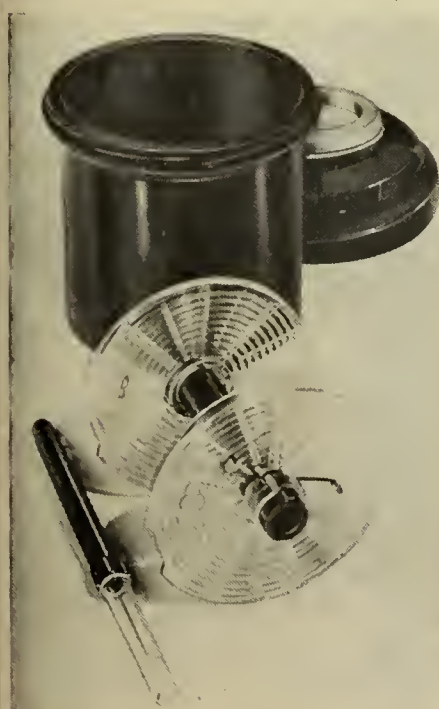


Smiths luminous interval timer.

Printers and Enlargers

Most manufacturers offer small printing frames for a few shillings and those are quite adequate for the beginner who does not want to spend much on his hobby.

There are half a dozen or so contact-printer boxes on the market. They include the Photax Westbury, of metal construction, and the yellow plastic



Roto-two developing tank.



Beta-II enlarger.

Paterson and Johnson boxes (the latter available for battery or mains operation). The plastic models may also be used as safelights.

A compromise between a contact-printer and an enlarger is the Jumbo postcard enlarger (Johnsons). There are two types, producing postcard prints from either 35-mm. negatives or sizes up to $2\frac{1}{4} \times 3\frac{1}{4}$ -in.

Choosing an enlarger is a complex affair and is really outside the scope of this article. The quality of lens, of course, varies—a suitable lens for a 35-mm. enlarger, for instance, may vary from £5 up to £15 or more. Again, the diameter and quality of glass in the main condenser set vary.

A useful inexpensive range of enlargers is made by GNOME PHOTOGRAPHIC PRODUCTS, LTD. Their Alpha, Beta and Gamma models give the amateur with a shallow pocket a wide choice. Their adjustable masking frames are also quite reasonably priced. Photax offer a smaller, but good, quality range of enlargers. Gnome also offer a comprehensive selection of lenses; first, the Wilon, followed by the better quality Wray series and more expensive types. Lens prices are extra to those of the enlarger.

An alternative to an adjustable masking frame is the Johnson "unit enlargement masking frame"—a set of L-shaped pieces contained in a frame and producing most of the popular formats from 3 in. sq. up to half-plate.

The optional extra of a focusing screen may be a useful item for slightly unsharp negatives. Such screens are obtainable for a few shillings from JOHNSONS and PHOTO-SCIENCE.

Chemicals

Finally the question of chemicals must be considered. For those who have

an experimental bent, mixing developers, fixers, reducers, toners, intensifiers, etc., can be an absorbing part of their hobby, but for ordinary purposes precompounded products are quite satisfactory. It is difficult to recommend a patented developer for a particular paper, because results depend so much on the personal element. A good rule is to keep to a particular speed and make of film. Using the recommended developer, good results can be consistently made by keeping darkroom conditions standard at all times. The same advice applies to developing and enlarging prints. When a standard routine has been established, the worker can explore fresh grounds. An amateur may easily waste money changing his film-developer-paper combination—and photography is apt to

be an expensive hobby anyway.

KODAK, ILFORD, JOHNSONS and MAY & BAKER, LTD., are all suppliers of photographic chemicals available either as concentrated solutions or in powder form requiring little in the way of preparation.

Besides the basic or standard requisites of a darkroom summarised above the enthusiast will find numerous aids, gadgets and luxury items listed in the commercial catalogues.

ADDRESSES

ADEMCO, LTD., 26 Stamford Street, London, S.E.1.

MALHAM PHOTOGRAPHIC EQUIPMENT, 65 Malham Road, London, S.E.23.

PHILIPS ELECTRICAL, LTD., Century House, Shaftesbury Avenue, London, W.C.2.

MAY & BAKER, LTD., Dagenham, Essex.

Address of other companies mentioned are given under "Popular 35-mm. cameras" (p. 221).

PHOTOGRAPHIC NOTES

Projectors.—Sole distributors in the United Kingdom of the Noris cine and slide projectors are Luminos, Ltd., 1 Belsize Crescent, London, N.W.3.

Japanese Cameras.—Northgate (Cameras), Ltd., 119 Wardour Street, London, W.1, are agents for five Japanese camera manufacturers. They invite chemists to write for literature.

Popular-priced Roll Films.—For their Coronet roll films Dufay (Birmingham), Ltd., Summer Lane, Birmingham, 19, claim "highest possible quality; lowest possible price."

Black and White and Colour.—A complete service for all monochrome and colour processing is available at Grant Photo Laboratories, 196 Lancaster Road, London, W.11.

Cine Accessories.—Robert Rigby, Ltd., Premier Works, Northington Street, London, W.C.1, are suppliers of film joiners, inspection viewers, rewinders, reel stores, projector stands and previewers.

Cine Processing Laboratories.—Processing of double 8-mm., 9.5- and 16-mm. cine films is offered by Rank Laboratories (Denham), Ltd., Denham, Uxbridge, Middlesex. Colour work is done in the 8- and 16-mm. sizes and optical sound printing in the 16-mm.

Photographic Products from U.S.A.—Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4, announce that they have been appointed by Polaroid Corporation of U.S.A. the exclusive distributors in the United Kingdom for Land cameras, accessories and sensitised materials.

"D. and P."—a 24-hour Service.—In the counties of Nottinghamshire, Lincolnshire, Derbyshire, South Yorkshire, Leicestershire, Warwickshire, Northamptonshire and Oxfordshire, A. C. Vallance, Ltd., Milton Street, Mansfield, Notts, provide a 24-hour collection and delivery service in developing and printing for the trade. They also collect colour films and forward them to appropriate laboratories.

Photographic Supplies.—Stocks of cameras, chemicals, projectors, etc., are held at Ashfield, Horton Road, Bradford, 7, and Glasgow by BROOK PARKER & Co., LTD., who invite chemists to

write for their "P" list.—A service that continues day and night is provided by JONATHAN FALLOWFIELD, LTD., Department CD26, 74 Newman Street, London, W.1.—Apparatus, sensitised materials, chemicals, are all obtainable from SOUTHALL BROS. & BARCLAY, Gooch Street, Birmingham, and from its associated companies in the SANGERS group.

Colour Processing.—One of the oldest laboratories engaged in processing colour films of all kinds, FENCOLOR LABORATORY, Box 75, Cambridge, is "personally run by the proprietors" with most modern equipment.—A processing service that covers Ektachrome, Ferranicolor, Anscochrome, Kodacolor and Agfacolor is operated by HAAGMAN COLOUR LABORATORIES, 18 Doughty Street, London, W.C.1, who invite chemists to send for price lists, order pads and address labels.—Claimed the only independent laboratory in the United Kingdom designed and built specifically for colour processing, HAMILTON TAIT, LTD., Penicuik, Midlothian, are providing a 3-5 day service during the 1961 season. The laboratory's postal packing is designed for use again by reverse folding; it is already addressed for mailing.—In Ireland, a colour film processing service is offered by LYALL SMITH LABORATORIES, LTD., Rathgar, Dublin.—RANK TEMPO LABORATORIES, LTD., Cumberland Avenue, London, N.W.10, offer to the retail trade a specialised service in colour processing, printing and enlarging. Facilities are at hand for processing Agfacolor negative, Eastman Colour negative, Ektachrome, Ektacolor, Ferranicolor, Gevacolor and Kodacolor films. Colour prints can be made from any transparency and from Agfacolor, Ektacolor, Gevacolor, Ferranicolor, Kodacolor, Adoxcolor and Ilfcolor negatives. Colour enlargements are available from all negatives and transparencies. Additional colour work includes enprinting and production of colour negatives from transparencies.—"One bag—one account" summarises the comprehensive service offered by SCOTTISH COLORFOTO LABORATORIES, P.O. Box 6, Alexandria, Scotland, who invite chemists to write for price list.



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after illness**

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BEECHAM RESEARCH Laboratories Ltd., BRENTFORD, ENGLAND



TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 1: Trading in CRUDE DRUGS showed little change on the week. The usual shortages still persisted and, as is so often the case, it was only in those items that buyers seemed interested.

Tinnevely SENNA LEAVES No. 1 were virtually cleared on the spot. AGAR declined by threepence per lb. upon receipt of lower offers from origin. The wide gap between the forward and spot rates for African GINGER was substantially narrowed as spot quotations dropped considerably; Jamaican, however, showed a firmer tone on the spot, as did the Cochin variety. Elsewhere among SPICES white Sarawak PEPPER was easier at 4s. per lb. against 4s. 3d. in the previous week.

During January, 4,418 lb. of IPECACUANHA ROOT was imported against 7,103 lb. in January 1960.

An interesting feature of the ESSENTIAL OIL market was the sudden rise in the value of Chinese ANISE, which rose fivepence per lb. to 7s. after many months of easing prices. Bourbon GERANIUM also rose sharply by 25s. per lb., the range now being quoted at 165s. to 170s. per lb. LEMONGRASS was dearer by threepence per lb. in both positions, but CITRONELLA, Ceylon and Formosan, displayed an easier tone.

There were no major changes in PHARMACEUTICAL CHEMICALS but there was a slight reduction in the 1-ton and upward rate of TARTARIC ACID (down one shilling per cwt.). For quantities less than 1 ton the former prices still pertain.

Reductions in the prices of HYDRAZINE are announced by the domestic manufacturer.

Pharmaceutical Chemicals

ACETANILIDE. — Crystals. One-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.
ALOID. — Micro-crystalline, 14-lb. lots, 31s. 6d. per lb.
AMMONIUM ACETATE. — 1-cwt. lots of B.P.C. 1949, 4s. 5d. per lb.
AMMONIUM BICARBONATE.—B.P. powder, 50 5s. per ton; CARBONATE, £81 10s. for lump and £85 10s. for powder.
AMMONIUM CHLORIDE. — One-cwt. lots B.P. powder, 105s. per cwt.; technical, 55s.
ANEURINE HYDROCHLORIDE. — 1-kilo £9 5s.; 10-kilos, £8 17s. 6d. per kilo.

LONDON EXCHANGE RATES

At the opening on Tuesday

Amsterdam..	Florins to £	10-61-10-61½
Bombay ..	Shillings to rupee	1/5½-1/6¼
Brussels ..	Francs to £	139-72½-139-77½
Copenhagen.	Kronor to £	19-33½-19-33½
Frankfurt ..	D Marks to £	11-65½-11-65½
Hong Kong ..	Shillings to \$	1/2½-1/3½
Karachi ..	Shillings to rupee	1/5½-1/6¼
Lisbon ..	Escudos to £	80-25-80-35
Malaya	Shillings to \$	2/4-2/4½
Milan	Lira to £	1,740-1,740½
Monircaal ..	Dollars to £	2-75½-2-75½
New York ..	Dollars to £	2-78-2-82
Oslo	Kronor to £	20-01½-20-01½
Paris	Francs to £	13-69½-13-69½
Stockholm ..	Kronor to £	14-45½-14-45½
Zurich	Francs to £	12-11½-12-12

*Bank of England official limits. Bank rate: 5 per cent. from December 8, 1960.

ASCORBIC ACID.—One-kilo. £3 12s.; 10 kilos, £3 10s. per kilo. SODIUM ASCORBATE is offered at the same price.

BARIUM SULPHATE. — B.P., 250-kilo lots, 3s. 3½d. per kilo.

BENTONITE.—B.P. about £770 per ton.

BENZOIC ACID.—One cwt., 2s. 11½d. per lb.; and SODIUM SALT, 2s. 9½d. per lb.

BENZYL BENZOATE. — B.P. in 1-ton lots, 4s. 6d. per lb

BORAX.—B.P. grade, 1 ton and upwards: Granular, £56 10s.; crystals, £60; powder, £61; extra fine powder, £62 per ton, all in hessian sacks. Commercial from £46 10s. to £52 per ton, as to type and packing. Dehydrated borax is £60 per ton in paper-lined hessian bags or £59 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

BORIC ACID.—B.P. grade in 1 ton and upwards (per ton): Granular, £91 10s.; crystals, £99 10s.; powder, £97; extra-fine powder, £99 per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical from £77 10s. to £87 per ton according to type and packing.

BROMIDES.—Crystals (per lb.):—

		1 cwt.	5 cwt.
		s. d.	s. d.
POTASSIUM	.. ..	2 6	2 5
SODIUM	.. ..	2 6	2 5
AMMONIUM	.. ..	2 10	2 8½

Powder is three-halfpence per lb. more, packages free, carriage paid terms.

CAFFEINE.—ANHYDROUS, less than 50-kilo lots, 35s. per kilo; MONOHYDRATE, B.P., 34s.; CITRATE, 26s. kilo.

CALCIFEROL.—B.P., 3s. 3d. per gm. for 1-kilo lots.

CALCIUM PANTOTHENATE. — £7 10s. per kilo.

CHLOROCRESOL.—Pharmaceutical quality, 7s. 5d. per lb. (1-cwt. lots).

CHLOROFORM.—1-cwt. lots in winchesters, 3s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2d. and 3s. 2½d. per lb. respectively.

CHLOROXYLENOL.—B.P., 5s. 8d. per lb. for 1-cwt. lots: 5s. 3d. per lb. for 1-ton.

CYANOCOBALAMIN.—Ten-gm. lots, £12 per gm.

DEXTROSE. — In bulk, MONOHYDRATE, £76 per ton, delivered; ANHYDROUS, £115 per ton

DIGOXIN.—100-gm. lots, 78s. per gm.

EMETINE. — One-kilo lots, HYDROCHLORIDE, 8,642s. per kilo.

ERGOMETRINE.—MALEATE, B.P., 270s. per gm.

FOLIC ACID. — B.P. and U.S.P., 1-kilo lots, £28 per kilo.

FORMALDEHYDE.—B.P. solution, 5 drum lots, 755s. per ton in free drums, delivered.

GLYCEROPHOSPHATES.—Per lb. in 1-cwt. lots:—ACID, B.P.C., 20 per cent., 4s. 7d.; CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble, B.P.C., 14s. 3d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

GUAIACOLS. — LIQUID B.P.C., 16s. per lb. for 1-cwt. lots; CRYSTALS, 15s. 9d.; CARBONATE, 18s.

LACTIC ACID. — B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. 4d. for 5-cwt. lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots; 12 winchesters, 2s. 8d. per lb.

MANDELIC ACID.—One-cwt. lots, 12s. 6d. per lb. CALCIUM SALT also 12s. 6d. SODIUM MANDELATE, 13s. and AMMONIUM MANDELATE 50 per cent. solution, 7s. 6d.

MENAPHTHONE. — (One-kilo-lots). B.P. 170s. per kilo; ACETOMENAPHTHONE, B.P., 170s.; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), 180s.

MERCURY DERIVATIVES.—Current quotations (per kilo) for less than 50-kilo lots are:—AMMONIATED, B.P. lump or powder, 55s. 6d.; PERCHLORIDE, B.P., powder, 48s.; SUBCHLORIDE (calomel), B.P., 54s. 6d.; OXIDES, yellow, B.P., 57s. 3d.; red B.P.C., 1949, 58s. 6d.

NICOTINAMIDE. — (Per kilo). One-kilo, 60s.; 10 kilos, 59s.; 50 kilos, 57s.

NICOTINIC ACID. — One-kilo, 39s.; 50-kilos, 36s. per kilo.

NIKETHAMIDE.—Per kilo, 100s.

PARAFFINS. — Prices to wholesale distributors are:—*Liquid*: HEAVY, B.P., £102 2s. 6d. per ton; LIGHT B.P., £84; *Technical White oils*, £75 10s. for the LIGHT and £89 for the MEDIUM. All in 40-50 gall. returnable loaned drums, delivered U.K. *Soft*: WHITE, medium consistency is £110 15s. per ton and soft consistency £107 7s. 6d. Yellow, £88 10s., all B.P., in non-returnable drums delivered.

PENICILLIN. — SODIUM, POTASSIUM or PROCAINE, 7d. per mega unit.

PYRIDOXINE. — One-kilo, £50 10s. per kilo; 10 kilos, £49.

RIBOFLAVINE. — One kilo, £13 5s.; 10-kilos, £12 17s. 6d. per kilo.

SACCHARIN.—B.P.C. powder, One lb. and over, 99s. 10d. per lb.; SODIUM SALT, 80s. 10d. per lb. Prices include duty and carriage.

TARTARIC ACID.—(In kegs) 1-ton lots, 298s. per cwt.; 10-19 cwt., 300s.; 5-9 cwt., 302s.; 1-4 cwt., 304s. Bags 8s. cwt. less. Crystals 7s. cwt. more than powder and granular.

UREA.—Pharmaceutical grade, £59 15s. per ton in 1-cwt. bags non-returnable; technical quality, £41 5s. per ton (4-ton lots).

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is 9½d. per million i.u.

VITAMIN D₂.—In oil, 2 million units per gm. the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—TOCOPHERYL ACETATE, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, £31 5s. per kilo; 10 kilos, £30 10s. per kilo. Equivalent prices for unesterified are: 1s. and 10d. per gm. and £37 and £35 10s. per kilo.

ZINC CARBONATE.—One-cwt. lots, 1s. 11d. per lb.

ZINC CHLORIDE. — B.P.C. cake, 7s. per lb.; sticks, 7s. 10d. TECHNICAL, 115s. per cwt.

ZINC OXIDE.—Two-ton lots B.P. grade, £107 10s. per ton; 1-ton, £108 10s.

ZINC PEROXIDE.—One-cwt. lots of B.P., 5s. 3d. per lb.

ZINC SULPHATE. — B.P., 1-cwt. lots, 1s. 10d. per lb.

Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 15s. 6d. per lb. in bond; shipment, 14s. 7½d., c.i.f.

ALOE.—Cape primes, spot, 180s. per cwt.; shipment, 157s. 6d., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 8s. 3d. duty paid as to source. PERU: Spot, 9s. in bond. TOLU (genuine as imported) nominal; B.P., 12s. 6d.

BELLADONNA. — LEAVES (t.a. 0.53 per cent.), 1s. 9d. per lb. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot.

BENZOIN. — Sumatra block, spot £22 to £30 as to quality.

BUCHU. — Spot rounds, 1958-59 crop, 4s. 9d. per lb.; new crop for shipment, 4s. 1d. to 4s. 4½d., c.i.f.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CHERRY BARK. — Thin natural, 2s. 10d. to 3s. 6d. per lb., as to holder.

CHILLIES.—Nigerian, 185s. per cwt. Mombasa, 350s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 3¼d.; 3 O's, 4s. 10½d.; O, 4s. 9d.; quillings, 3s. 1d.; featherings, 1s. 6½d.

CLOVES.—Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. 7½d., c.i.f.

DIGITALIS. — *Purpurea* for shipment, 11d. to 2s. 4d. per lb., c.i.f., as to test.

ELEMI.—Spot cleared. Shipment, 1s. 11d. per lb., c.i.f.

ERGOT.—Portuguese nominally 11s. per lb., c.i.f., for prompt shipment; spot, 9s. 3d.

FRANGULA.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 150s. per cwt.

GINGER.—African, spot, 175s.; new crop for shipment, 140s. per cwt., c.i.f. Jamaican No. 3, spot, 207s. 6d.; shipment, 190s., c.i.f. Cochín, shipment, new crop, 120s., c.i.f.; spot, 140s. (per cwt.).

GUM ACACIA. — Kordofan cleaned sorts, 152s. 6d. per cwt., spot; new crop, March-April shipment, 134s., c.i.f.

HENNA. — Indian, spot, 87s. 6d. per cwt.; new crop for shipment, 62s. 6d., c.i.f.

HONEY.—Australian light amber, 100s. to 102s. 6d. per cwt. and medium amber 95s. to 100s. Argentine, 105s. to 110s.; Jamaican, 110s. to 115s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA. — For shipment, c.i.f., per lb.—Colombian, 50s. 3d.; Costa Rican, 68s. 6d. nominal; Nicaraguan, 65s. 9d. Spot: Matto Grosso, 53s. 6d. to 55s. as to test; Colombian, 55s. 6d.

JUNIPER BERRIES.—Italian, 90s. per cwt.; German, 130s.

KARAYA. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 220s.

LANOLIN. — ANHYDROUS B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL.—Spot, 3s. 3d. per lb.

LINSEED.—Whole, 70s. to 75s. per cwt.; crushed, 105s.

MACE. — Whole pale blade, 23s. 6d. per lb. spot.

MENTHOL. — Chinese: spot, 87s. 6d. per lb., duty paid; shipment, 80s., c.i.f. Brazilian, 53s. 6d., in bond; shipment, 52s. 6d., c.i.f. Formosan, 54s., in bond.

MERCURY. — About £69 per flask of 76-lb.

NUTMEGS. — West Indian 80's 12s. per lb., spot; sound unassorted, 9s. 3d.; defectives, 6s. 9d.

NUX VOMICA. — Spot, 130s. per cwt.; shipment, 90s., c.i.f., subject to export licence.

ORANGE PEEL. — Spot: Sweet ribbon 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 3d.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PEPPER.—White Sarawak, spot, 4s. per lb.; shipment, 3s. 11d., c.i.f. Black Sarawak, spot, 3s. 1d., shipment, 3s., c.i.f. Black Malabar, 420s. per cwt. spot, and 360s., c.i.f.

PEPPERMINT LEAVES. — Dutch whole 1s. 9d. to 2s. 2d. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 190s. per cwt., *Peltatum*, 375s.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLAIA. — Spot nominal; shipment, 122s. 6d. per cwt., c.i.f.

RHUBARB. — Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

SAFFRON.—*Mancha selecta*, 147s. 6d. per lb.

SARSAPARILLA. — Jamaican native red spot, 2s. 9d. per lb.; shipment, 2s. 3d., c.i.f.

SEEDS.—(Per cwt.). ANISE.—Spanish, 197s. 6d., duty paid. CARAWAY.—Dutch steady with sellers quoting 165s., duty paid. CELERY.—Indian, 150s., spot; shipment, 145s., c.i.f. CORIANDER.—Moroccan, 117s. 6d., duty paid; shipment, 109s., c.i.f. CUMIN.—Indian, 180s. spot; Iranian, 180s., duty paid. DILL.—Indian, 100s. spot; shipment, 78s., c.i.f. FENNEL.—Chinese, 105s., duty paid; Indian, 115s., spot. FENUGREEK.—Moroccan, 70s., duty paid; shipment, 54s., c.i.f. MUSTARD.—English, 67s. 6d. to 95s., according to quality.

SENEGA.—Spot, 21s. 6d. per lb.

SENNA. — *Timnevelly* LEAVES, prime No. 1, cleared per lb., f.a.q.; No. 3, 9d. facturing (f.a.q.), 9d. and hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; new crop hand-picked, 4s. 6d. to 6s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s., spot.

SLIPPERY ELM.—Bark, 3s. 6d. lb., landed value.

SQUILL.—White 75s. per cwt., spot.

STRAMONIUM. — Indian LEAVES 60s. per cwt., spot. Dutch 0.5 per cent. alkaloid 93s., c.i.f.

STYRAX. — Spot, 29s. per lb., shipment, 26s., c.i.f.

TONQUIN BEANS.—Para spot, 7s. 3d. per lb. Shipment nominal, Angostura 11s.

TRAGACANTH. — No. 1 ribbon, £145 to £150 per cwt. No. 2, £135 to £140.

TURMERIC.—Madras finger on spot is 110s. per cwt.; new-crop for shipment, 87s. 6d., c.i.f., quoted.

VALERIAN ROOT.—Spot: Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 22s. 3d.; 1-cwt., 22s. 6d.; 56-lb., 22s. 9d.; small quantities, 23s.

WAXES. — (Per cwt.). BEES'—Dar-es-Salaam, spot, 470s.; shipment, 440s., c.i.f., nominal. Abyssinian, spot 390s. in bond; shipment 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 420s.; shipment, 360s., c.i.f. CANDELLILLA, spot, 475s. CARNAUBA, fatty grey, spot, 495s.; shipment, 470s., c.i.f.; prime yellow, spot, 730s.; shipment, 670s., c.i.f.

WITCH HAZEL LEAVES.—New-crop nominally, 4s. per lb.

Essential and Expressed Oils

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE.—Chinese 7s. per lb., spot; shipment, 6s. 8d., c.i.f.

BERGAMOT.—Spot, from 72s. 6d. per lb.

CADE. — Spanish, 3s. 6d. per lb. for drum lots.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot, 56s. 6d. per lb.

CAMPHOR, WHITE.—Chinese, 1s. 8d. per lb. in bond; 1s. 5d., c.i.f.

CANANGA.—Spot, from 37s. 6d. per lb.

CARAWAY.—Imported oil, 26s. 6d. per lb.

CARDAMOM. — From 330s. per lb. for English-distilled and 260s. for imported.

CASSIA. — Smalls, 18s. 6d. per lb. for 80-85 per cent.

CASTOR.—Home produced B.P. oil, spot, £157 per ton naked ex mill (2-ton lots).

CHAMOMILE.—Smalls 800s. per lb.

CITRONELLA. — Ceylon, spot, 6s. 9d.; shipment, 6s. 4d. per lb., c.i.f. Formosan, spot, 8s., in bond; shipment, 7s. 10½d., c.i.f.

CLOVE.—Madagascar leaf, spot, 7s. 6d. per lb., duty paid; shipment, 6s. 8d., c.i.f. Rectified 87-88 per cent., 12s. Distilled bud-oil, English, B.P., 28s. for 1-cwt. lots.

COD-LIVER. — B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 3d. per lb.; 80-85 per cent., 5s. 6d. Spanish, 3s. to 3s. 6d. spot. Chinese, 3s. 3d., duty paid.

FENNEL.—Spanish sweet, spot, 10s. per lb.

GERANIUM.—Bourbon, 165s. to 170s. per lb. on the spot; Algerian, 140s.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

GRAPEFRUIT.—Florida, 18s. per lb.

JUNIPER. — B.P.C. 1949 oil is from 15s. per lb. on the spot. English-distilled, 150s. JUNIPER WOOD, from 5s.

LEMONGRASS. — Spot, 15s. 6d. per lb., and shipment, 15s. 3d., c.i.f.

NUTMEG.—Imported B.P. oil is from 50s. to 90s. per lb. as to source. English-distilled, 140s.

OTTO OF ROSE.—Bulgarian, 400s. per oz. Turkish, £350 per kilo.

PENNYROYAL. — Spot is firm at 15s. per lb., duty paid.

PEPPERMINT. — *Arvensis*: Chinese spot, 38s. 6d.; shipment, 37s. 6d., c.i.f. Brazilian spot, 18s.; afloat, 17s. 6d., c.i.f.; new-crop. February-March shipment, 17s., c.i.f. *Piperita*: Italian, 48s. per lb., spot. American from 30s. to 38s. per lb. as to make.

PIMENTO. — English-distilled berry 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots.

PINE. — *Pumilionis* on the spot is 15s. per lb.; *sylvestris*, 5s.; Siberian (*abietis*), 15s.

ROSEMARY.—Spanish is 7s. 6d. per lb. on the spot for best quality.

SAGE.—Spanish, 8s. per lb.; Dalmatian, 19s. 6d. to 25s.

SANDALWOOD. — Mysore 150s. to 155s. per lb. East Indian 150s.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

VETIVERT.—Bourbon spot, 115s. to 120s. per lb.; shipment, 113s., c.i.f.

YLANG YLANG.—Spot, 37s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, FEBRUARY 28: Brazilian MENTHOL eased 10 cents to \$8 per lb. VANILLA BEANS declined 40 cents to \$6.85 per lb. TANGERINE OIL was higher on spot and shipment at \$6.50 per lb. (up 50 cents). GUM ACACIA (amber sorts) were up ½ cent to 21 cents per lb.

WORLD TRADE

More British Exhibits at Leipzig.—More British firms will exhibit at the 1961 Leipzig Spring Fair, March 5-14, than ever before. Approximately 225 firms are exhibiting in the Technical Fair (Technische Messe), and the Samples Fair. At the Technische Messe the British Pavilion, co-ordinated by British Overseas Fairs, Ltd., will contain fifty-eight exhibitors. Another 140 exhibitors will be in other pavilions making a total of 198 firms exhibiting.

Opening of Chemical Plants.—Plantex, a Rothschild enterprise which will produce alkaloids for the pharmaceutical industry, is reported by Barclays Bank D.C.O. from Israel to have opened at Nathanya in January. The plant was built in six months at a cost of \$1 million. The same source reports that a pharmaceutical factory is under construction at Aba, Nigeria. The cost is estimated at £100,000 and it is hoped that production at the new factory will commence about the middle of the present year.

Venezuelan Trade Mission for Britain.—Twelve of Venezuela's leading business men and industrialists arrived in Britain on February 19 on a fourteen day fact-finding tour of British industry. Announcing this, Lord Rootes (chairman of the Western Hemisphere Exports Council) said that the mission was one of the most significant ever to come to this country from Latin America. They will, in fact, see a cross section of British industry at work and in addition to meeting individual manufacturers and exporters, the members of the party will also have talks with officials of the Government. The visit is the first to be sponsored by the Western Hemisphere Exports Council (formerly the Dollar Exports Council), one of the principal aims of which, said Lord Rootes, was "to create the enthusiasm and climate both at home and abroad which will lead to our regaining our former share of the valuable Latin American market." Western Germany is one of the countries that has made progress in those markets recently.

Pharmaceuticals in Viet-Nam.—A new VN\$30-millions pharmaceutical plant is being built by Vinaspecia (a subsidiary of SPECIA), at Vinh Hoi, Viet-Nam. Its operation is scheduled for July. During its initial phase the plant will manufacture drugs like aspirin and will then turn out more complicated medicines including antibiotics. The medicines will be made under the licence of the Specia firm, which will also supply raw materials and technical aid.—According to Ha Buu Duong, industry and handicraft director of Viet-Nam's Economic Department, in a recent talk delivered at Saigon, vital industries, including chemicals, which do not exist in Viet-Nam at present, will appear in the next three or four years. He also stated that remarkable progress had been made by the local pharmaceutical industry, which was turning out hundreds of specialities. The forty existing laboratories in the country employ about 2,000 persons at the present time.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, March 6

HENDON AND EDGWARE BRANCH, PHARMACEUTICAL SOCIETY, Hendon Hall hotel, Ashley Lane, London, N.W.4, at 8 p.m. Detective-inspector Rouse on "Fraud."
OIL AND CHEMISTS' ASSOCIATION, TECHNICAL EXHIBITION, Royal Horticultural Society's New Hall, London, S.W.1. March 6-9.
OLDHAM BRANCH, PHARMACEUTICAL SOCIETY, Greaves Arms hotel, at 8 p.m. Talk by Mr. F. W. Chapple (Clerk to the Oldham Executive Council).
ROYAL SOCIETY OF ARTS, John Adam Street, Adelphi, London, W.2, at 6 p.m. Mr. M. J. Langford on "Photography in Industry and Commerce." First of three Cantor lectures on "Modern Photography."

Tuesday, March 7

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Imperial hotel, Birmingham, at 8 p.m. Mr. W. W. Heseltine on "New Antibiotics."
BRIGHTON TECHNICAL COLLEGE SCHOOL OF PHARMACY, main hall, Richmond Terrace, Brighton, 7, at 7 p.m. Mr. S. G. Jary on "Disease and Pest-control in Agriculture." Third of six lectures.
COVENTRY AND WARWICKSHIRE BRANCH, PHARMACEUTICAL SOCIETY, lecture theatre, Herbert Art Gallery, at 8 p.m. Members' night.
Daily Mail IDEAL HOME EXHIBITION, Olympia, London, W.14. March 7 to April 3.

TELEVISION

Figures in the columns represent number of appearances of the product during the week.

March 12-18		London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
Alka-Seltzer	..	2	2	2	1	2	3	2	1	2
Anadin ..	..	5	2	5	1	—	4	5	1	4
Andrex ..	..	—	—	3	—	—	—	—	—	—
Askit powders	..	—	—	—	12	—	—	—	—	—
Bengers food..	..	—	—	—	—	3	—	—	—	—
Bisodol ..	..	—	—	—	—	1	—	—	—	—
Bonio ..	..	5	—	—	—	—	—	—	—	—
California syrup of figs ..	..	—	1	1	1	—	—	—	—	—
Cuticura ..	..	2	—	2	—	—	—	—	—	—
Dekrasil capsules	..	—	—	—	—	—	—	2	—	—
Delrosa ..	..	1	1	1	3	—	—	—	—	1
Delsey ..	..	—	—	—	—	—	3	—	2	—
Dramal ..	..	—	1	1	1	1	—	1	1	—
Ellimans Universal embrocation ..	..	—	1	—	—	—	1	—	1	—
Euthymol tooth-paste	..	—	—	1	—	—	1	—	1	3
Haze aerosol ..	..	—	1	—	—	—	—	—	—	—
Horlicks ..	..	3	3	3	2	3	3	3	2	2
Immac ..	..	—	—	1	—	—	—	—	—	—
Imperial Leather soap ..	..	2	5	3	4	3	3	3	3	3
Iodised Balmosa ..	..	—	—	2	—	—	—	—	—	—
Kleenex ..	..	—	—	—	2	1	1	2	—	1
Loxene medicated shampoo ..	..	2	2	2	3	2	2	2	2	2
Max Factor lipstick..	..	3	3	3	3	2	3	3	3	3
Milk of Magnesia tablets..	..	2	—	—	2	2	2	2	2	—
Pancts ..	..	1	—	—	—	—	—	—	—	3
Penetrol inhalant ..	..	1	1	1	—	—	—	1	—	—
Pepsodent tooth- paste ..	..	2	2	2	2	2	2	2	2	2
Phillips tonic yeast	..	—	—	—	—	—	1	—	1	—
Phillips tooth-paste..	..	—	—	—	1	—	—	—	—	3
Poppet solid detergent ..	..	—	2	—	—	1	2	—	2	—
Rennies ..	..	—	—	—	—	—	—	1	—	—
Rimmel "beauty on a budget "	..	2	1	—	1	1	1	1	—	—
Rinstead pastilles	..	1	2	3	1	2	2	1	1	2
SqEzy ..	..	3	—	—	—	—	3	—	—	—
Steradent ..	..	3	1	2	2	2	2	2	2	2
Topcat ..	..	—	—	2	—	5	—	—	—	—
Topdog ..	..	—	—	—	—	—	5	—	—	—
Velouty ..	..	3	—	—	—	—	—	—	—	—
Warrick smokers' cough pastilles	..	—	—	—	—	—	4	—	—	—
Winspray ..	..	—	—	—	—	—	1	—	—	—

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, Falstaff hotel, Canterbury, at 8 p.m. Mr. C. C. Stevens on "The Pharmacist and Common Law."
INSTITUTION OF CHEMICAL ENGINEERS, LONDON BRANCH, Geological Society, Burlington House, London, W.1, at 4 p.m. Papers on fluidisation.
NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Black Boy hotel, Nottingham, at 7.30 p.m. Mr. A. N. Birket, F.R.C.S., on "The Surgical Considerations of Rheumatic Disease."
PORTSMOUTH CHEMISTS' ASSOCIATION, The Masonic Hall, Albert Road, Cosham, Portsmouth, at 7.30 p.m. Annual Ladies' Festival.
SCHOOL OF PHARMACY, UNIVERSITY OF LONDON, Brunswick Square, London, W.C.1, at 5.30 p.m. Professor H. W. Mossman on "Glandular Tissues of the Mammalian Ovary."

Wednesday, March 8

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 142A St. Vincent Street, Glasgow, C.2. Dr. J. B. Stenlake and Mr. C. G. Drummond on "Pharmacy in Northern France."
NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 14 Nelson Road, Bulwell, at 7 p.m. General meeting and chairman's "At Home."
READING BRANCH, PHARMACEUTICAL SOCIETY, Great Western hotel, Reading, at 7 p.m. Branch banquet and ball.
ROYAL INSTITUTE OF CHEMISTRY, LONDON SECTION, Chelsea College of Science and Technology, Manresa Road, London, S.W.3, at 6.30 p.m. Professor G. A. D. Haslewood on "Newer Chemistry of Bile Acids and Alcohols."
SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY, Cobb's restaurant, Cobb's Corner, London, S.E.26, at 6.30 p.m. Annual dinner and dance.
THAMES VALLEY PHARMACISTS' ASSOCIATION, Casino hotel, Hampton Court, at 6.30 p.m. Annual dinner and dance.
WESTERN PHARMACISTS' ASSOCIATION, Rotary House, 21 Portman Square, London, W.1, at 7.30 p.m. Mrs. R. Gibson (Yardley & Co., Ltd.) on "Skin Care and Make Up."

Thursday, March 9

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Halfway House hotel, Luton Road, Dunstable, at 7.15 p.m. Annual dinner and dance.
CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Technical College, Park Lane, Croydon, at 8 p.m. Business refresher course lecture. (The final lecture will be on March 23.)
DURHAM BRANCH, PHARMACEUTICAL SOCIETY, Three Tuns hotel, New Elvet, Durham. Talk by Mr. T. Heseltine (a member of the Society's Council).
LANCASTER MORECAMBE AND WESTMORLAND BRANCH, PHARMACEUTICAL SOCIETY, Clarendon hotel, Marine Road, Morecambe, at 7.45 p.m. Talk by Mr. G. B. Manning (a Home Office pathologist).
LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Stafford Arms hotel, Wakefield, at 8 p.m. Mr. A. Hargrave (superintendent, Wakefield pricing bureau) on "Pricing Bureau Procedure."
LONDON CHEMISTS' GOLFING SOCIETY, Hendon Hall hotel, Hendon, London, N.W.4, at 7.30 p.m. Dinner and dance.
NEWCASTLE AND NORTHUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, No. 3 chemistry theatre, King's College, at 7.30 p.m. Mr. A. R. G. Chamings (a member of the Society's Council) on "The Pharmacist and the Doctor."
SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, and SHEFFIELD BRANCHES, BRITISH MEDICAL, DENTAL AND OPTICAL ASSOCIATIONS, Cutlers hall, Sheffield, at 8 p.m. Liaison ball.
SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Seaburn hotel, at 8 p.m. Cocktail dance.

Friday, March 10
INSTITUTION OF CHEMICAL ENGINEERS, NORTH-WESTERN BRANCH, Midland hotel, Manchester, at 7 p.m. Annual dinner and dance.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents),"
February 22

- Aminobenzene sulphonamide*, CIBA, Ltd. 865,708.
Antiseptic therapeutic compositions comprising 2:4 dichlorobenzyl alcohol, Boots Pure Drug Co., Ltd. 865,672.
Preparation of anti-haemophilic globulin from pig plasma, S. Maw, Son & Sons, Ltd. 865,423.
Steroids and the manufacture thereof, Upjohn Co. 865,673.
Heterocyclic nitrogen compounds and their use, J. R. Geigy, A.G. 865,675.
Gastro-intestinal therapeutic composition containing urea and carbon dioxide, D. J. Goodfriend. 865,770.
Chemical process and products, Bristol-Myers Co. 865,836.
Methods of producing intestine regulators, Tervalon Mij. Voor Voedingsmiddelen Op Wetenschappelijke Basis N.V. 865,595.
Granulation of valerian and hop extracts, H. Merkel. 865,745.
Phenothiazine derivatives and their preparation, National Drug Co. 865,752.
5-nitro-2-furyl compound, C. Pfizer & Co., Inc. 866,796.
Process for preparing a camphane derivative, Lepetit S.p.A. 865,862.
Acyated α ; α -dioxy-diamino anthraquinones, their manufacture and use, CIBA, Ltd. 865,809.
Method of producing ammonium sulphate, H. Kippers, G.m.b.H. 865,676.
Acyaminoanthraquinones and process for their manufacture, CIBA, Ltd. 865,816.
Purification of phenol, Distillers Co., Ltd. 865,677.
Phthalocyanine dyestuffs, their manufacture and use, CIBA, Ltd. 865,679.
Alkaloid, voacamidine from voacanga africana and a process for its isolation, J. R. Geigy, A.G. 865,687.
Esters of p-tert-butyl-cyclohexanol and preparation thereof, Van Ameringen-Haebler, Inc. 865,819.
Hydroxyquinones, CIBA, Ltd. 865,808.
Preparation of dihydrodesoxy-streptomycin, Soc. des Usines Chimiques Rhone-Poulenc. 865,873.
Poultry feeds, F. Hoffmann-La Roche & Co., A.G. 865,700.
Method for the preparation of chlorine-containing organic phosphorus-nitrogen compounds, J. A. Benckiser Gesellschaft Chemische Fabrik. 865,848.
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Spirophosphonium salts, American Cyanamid Co. 865,750.
Preparation of organic halides, Continental Oil Co. 865,386.
Pyrazole compounds and the preparation thereof, CIBA, Ltd. 865,709.
Manufacture of halo-hydrocarbons, Imperial Chemical Industries, Ltd. 865,754.
Process for the preparation of a compound of the allopregnane series, Organon Laboratories, Ltd. 865,751.
Process for the production of aminobenzole acid derivatives and their use in pest control, J. R. Geigy, A.G. 865,735.
British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

- From the "Trade Marks Journal," February 8
For perfumes, toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other Classes), sachets for use in waving the hair, soaps and essential oils (3)
ELET, 809,352, PACEMAKER, 810,419, by County Laboratories, Ltd., Brentford, Middlesex.
For cleaning and polishing preparations (3)
LAZY DAY, 811,571, by E. R. Howard, Ltd., Ipswich, Suffolk.

For detergents (3)

- DASCO-KLEEN, 812,097, by D. A. Steward Oil Co. (G.B.), Ltd., London, W.1.
For preparations for removing stains from textiles; and cleaning, anti-misting, degreasing and stain-removing preparations, all for domestic use (3)
Device with word POISE, 812,660, by Samuel Haft, London, E.5.

For pharmaceutical preparations for use by injection (5)

- MANOLE, 795,961, by Farbwerke Hoechst, A.G. vormals Meister Lucius & Brüning, Frankfurt-on-Main-Hoechst, Germany.

For all goods containing aloe (5)

- ALOEX, B801,172, by Amalgamated Cape Aloes Exporters (Proprietary), Ltd., Mossel Bay, Cape Province, South Africa.

For all goods (5)

- NIROLEX, 803,490, by Boots Pure Drug Co., Ltd., Nottingham. SPASBURG, 809,694, by Howard Lloyd & Co., Ltd., London, S.W.1.
FALLORIN, 811,309, BETNESOL, 811,659, by Glaxo Laboratories, Ltd., Greenford, Middlesex. LYASINA, 812,274, by Parke, Davis & Co., Detroit 32, Michigan, U.S.A., and Houns-low, Middlesex. TRIAZUROL, 812,880, by Veb Farbenfabrik Wolfen, Wolfen, Bitterfeld, Germany.

For pharmaceutical products (5)

- DESERIL, 804,455, by Sandoz Products, Ltd., Horsforth, Leeds, Yorks.

For pharmaceutical preparations for use in the treatment of neuro-vegetative dystonia and psychosomatic ailments (5)

- HISTALOS, 804,860, by Union Chimique Belge, S.A., Brussels, Belgium.

For pharmaceutical preparations and substances for human and veterinary use, all for sale in the United Kingdom (5)

- CLYSTRONAL, FRANOLONE, 805,187-88, by Winthrop Group, Ltd., Surbiton, Surrey.

For pharmaceutical preparations and substances for human and veterinary use (5)

- METOPIRONE, 805,575, CROMIACTANE, 805,850, by CIBA, Ltd., Basle, Switzerland. PIGARON, 809,197, by Winthrop Group, Ltd., Surbiton, Surrey.

For insecticides and vermicides (5)

- BAYTEX, 806,456, by Farbenfabriken Bayer, A.G., Leverkusen, 22c, Germany.

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- SLIMONEL, 807,037, by Fango Co. (Export-Gesellschaft für Quellenprodukte), G.m.b.H., Rapperswil (Canton of St. Gallen), 9, Switzerland.

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- CONGESTEZE, B807,122, by Boots Pure Drug Co., Ltd., Nottingham.

For drugs for veterinary purposes (5)

- ZOALENE, 807,142, by Dow Chemical Co., Midland, Michigan, U.S.A.

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- MUCAINE, 809,192, by American Home Products Corporation, New York, U.S.A.

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- Device, 810,095, by Rexall Drug Co., Ltd., Loughborough, Leics.

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- Device with word FLORET, 811,263, by Reckitt & Sons, Ltd., Hull, Yorks.

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For photographic and cinematographic apparatus (9)

- PRAKTI, 812,638, by Veb Kamera-und Kinowerke Dresden, Dresden, A21, Germany.

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- STOLLENWERK, B806,552, by Stollenwerk Fabrik für Sanitätsausrüstungen, Cologne-Dellbrück, Germany.

From the "Trade Marks Journal," February 15

For preparations for the hair (3)

- Device with words HAIR ELIXIR, B783,225, by Berner Osakeyhtio, Helsinki, Finland.

For insecticides, fungicides and weed-killing preparations, all containing phosphorus and all being goods for export (5)

- SAYFOS 802,289, by Plant Protection, Ltd., London, S.W.1.

For non-medicated toilet paper (10)

- LESTROL, 813,629, by F. A. Lester (Chemists), Ltd., Sheffield, 1.

CONTEMPORARY THEMES

- PLANT RUSTS, Man-guided evolution in, *Science*, February 10.

- PSYCHOTROPIC DRUGS, Effect of on the uptake of H₃-norepinephrine by tissues, *Science*, February 10.

- EMETINE, Electrocardiographic and behavioural effects of, *Science*, February 10.

- THE ENDOCRINE ORCHESTRA, *Brit. med. J.*, February 25.

- MULTIPLE-PUNCTURE VACCINATION with freeze-dried B.C.G. vaccine in schoolchildren, *Brit. med. J.*, February 25.

- GERIOPITIL, A controlled trial of, *Brit. med. J.*, February 25.

- MEDICAL ILLUSTRATION, *J. Amer. med. Ass.*, January 21.

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- THE REDUCTION of ascaridole with ferrous sulphate solution, *The Chem. Soc.*, February.

- METHYRIDINE—a new anthelmintic for sheep and cattle, *Vet. Rec.*, February 25.

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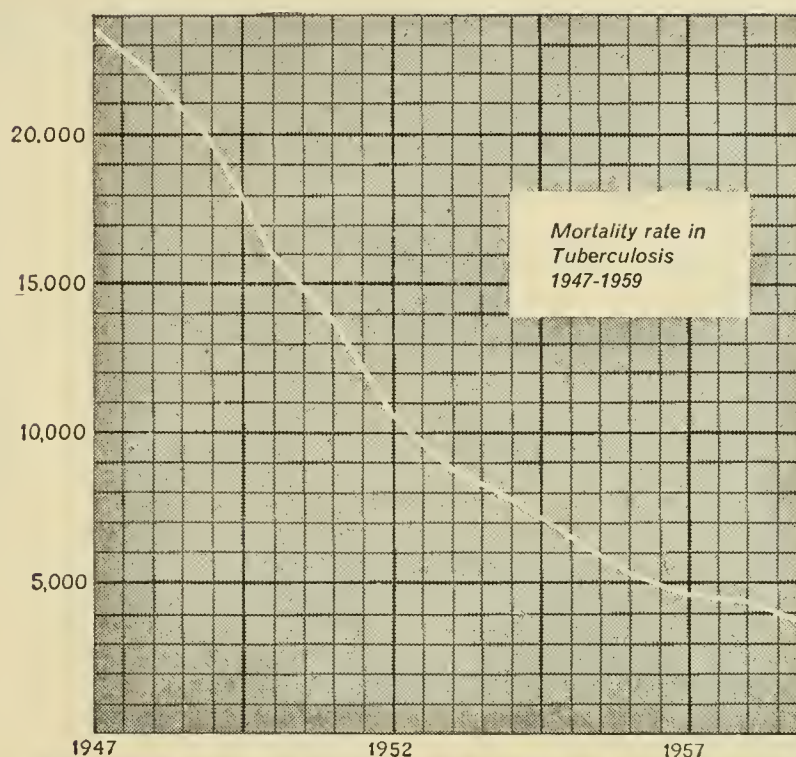
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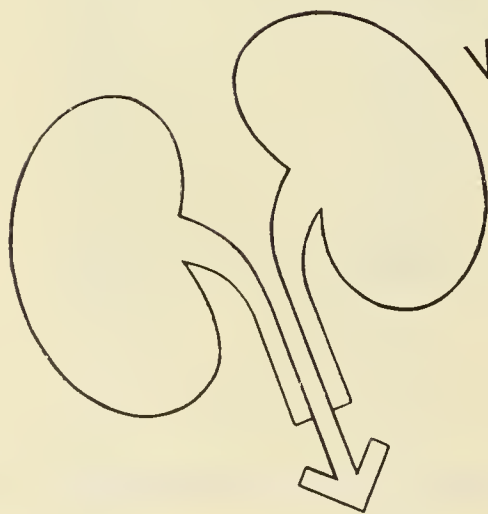
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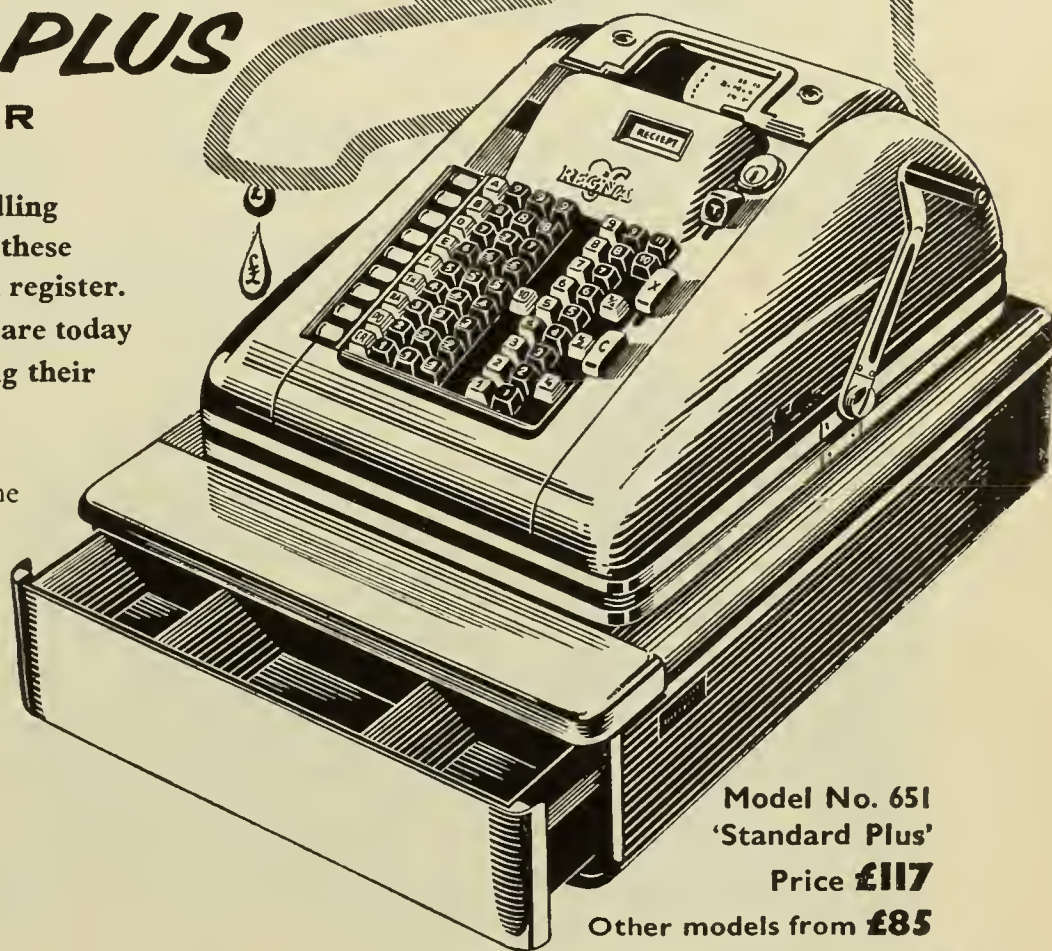
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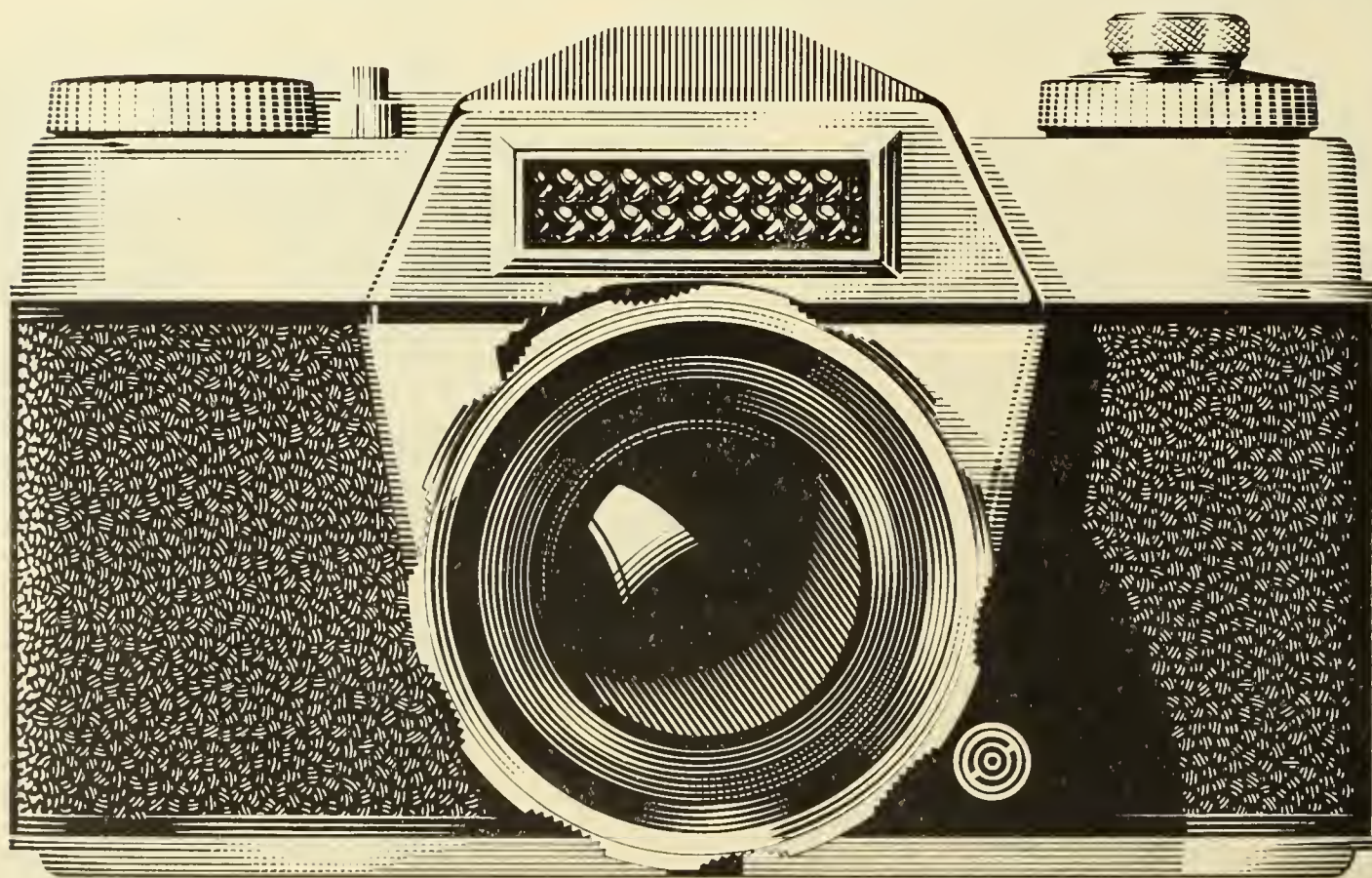
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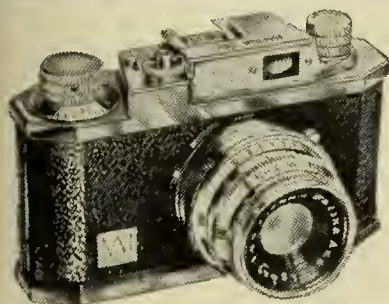
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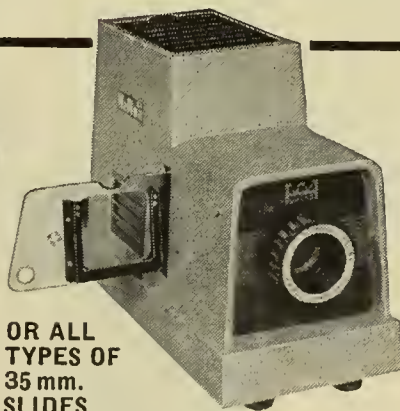
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Add up these 4 big plus points
they make
high-profit business for you

Record breaking advertising support

This year, Bell & Howell makes advertising history with the largest-ever campaign for cine equipment. Big-space* advertising will blanket the National, London, Regional and Photographic press—certain to create yet another record year for Bell & Howell dealers.

Demonstration magic makes easy sales

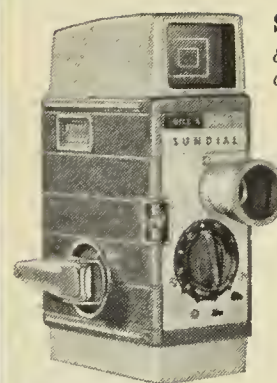
The most brilliant, most advanced features in cine photography today belong to Bell & Howell—features that make demonstrating a pleasure! Bell & Howell precision quality is easiest to sell while the Bell & Howell name adds valuable pride and prestige to your business.

Most attractive, well-balanced range

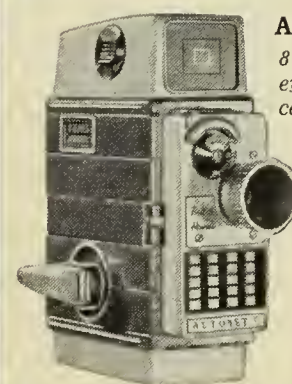
Bell & Howell is the largest-selling range of cine equipment in the country: and this year it's even bigger and better than ever. Beautifully engineered cameras and projectors for the beginner or experienced moviemaker—really fine value, backed by world-wide after-sales service.

Hard selling promotion material

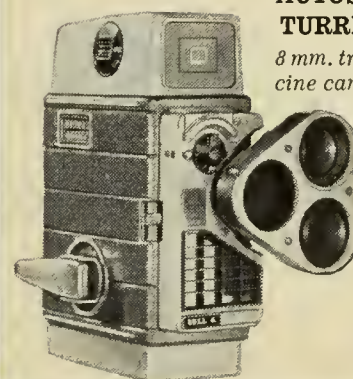
Bell & Howell selling support doesn't stop with advertising. Window and counter displays, give-away booklets and other sales aids are all part of the big Bell & Howell build-up for 1961.



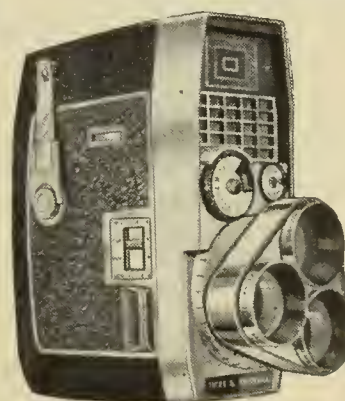
SUNDIAL
8 mm. cine
camera



AUTOSET II
8 mm. electric
eye cine
camera



**AUTOSET
TURRET**
8 mm. tri-lens
cine camera



SPORTSTER IV
8 mm. tri-lens cine camera

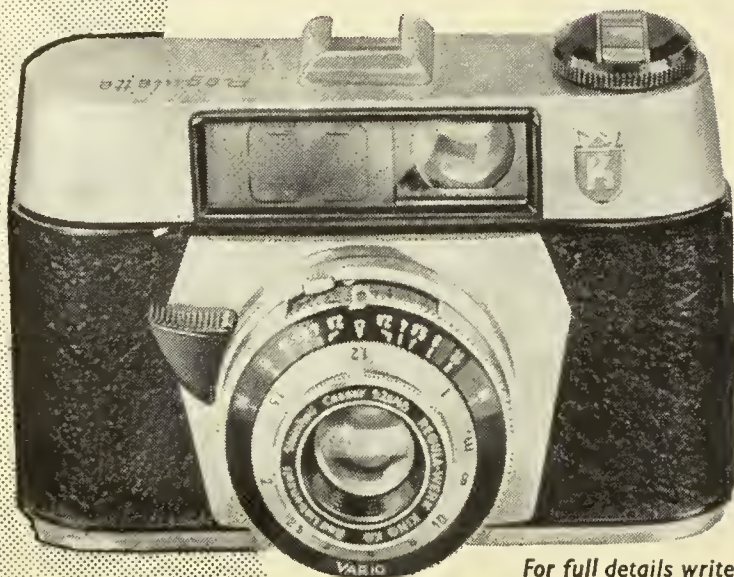
BELL & HOWELL

THE QUALITY NAME IN CINE EQUIPMENT

ENORMOUS SALES with the FABULOUS REGULETTE

there's nothing to beat it at the price,

Order yours now!



For full details write

REGULETTE (with VARIO shutter)

This 35mm camera will undoubtedly be the "mass appeal" camera for the 1961 season (and you get an extra 10% discount on an order for 36). It has fantastic specifications for a price so low—f2.8 coated CASSAR lens, 3 speed VARIO shutter, genuine "double window" bright line finder, concealed lever wind and exceptionally smart design.

£9 - 19 - 5

E.R. Case £2 - 5 - 4

DEPT. R22
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Newcastle · Staffs.

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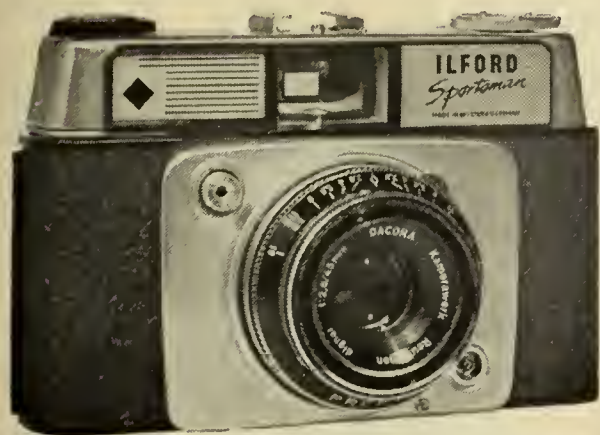
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BOX 75 CAMBRIDGE

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Best camera value in Britain



ILFORD SPORTSMAN

Vario £11.19.6 Pronto £15.15.0
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 Cases £2.3.7 (standard) and £3.1.0 (de-luxe)



ILFORD SPORTI ROLL-FILM CAMERA

Sporti roll-film camera £3.17.7
 Super Sporti £5.12.6
 Cases 21/10 (standard) and 29/1 (de luxe)
 ILFORD Sporti 4 camera 49/8
 Case 17/5

Last year showed record sales of ILFORD cameras. Your customers find them irresistible. Make no mistake — 1961 will set *new* sales records for ILFORD Sportsman and Sporti cameras! Take *YOUR* share of good business: there is no better camera value you can offer your customers.

Every camera is the better for an ILFORD film

Selochrome Pan for happy snaps
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 film for glowing colour transparencies
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ILFORD

cameras and films *the season's best sellers*

Announcing The Camera Sensation of 1961...

ROLLEI magic

THE
COMPLETELY
AUTOMATIC
TWIN-LENS
REFLEX
CAMERA

We have pleasure in announcing the latest development in ROLLEI Cameras—the Rollei Magic—it automatically gives correct exposure and a preview of the final picture; full negative size and in full colour.

This camera will fulfil the needs of a great potential market. Now everyone can take superb pictures without any technical knowledge. Make sure you get your share of sales by ordering NOW. Every order will be dealt with in strict rotation.

For the convenience of dealers we shall be operating, as in the past, our Pre-Budget Order Scheme which will protect dealers against any change in Purchase Tax regulations.

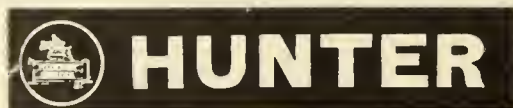
Extensive advertising will be promoted in the National and Photographic Press to give dealer support.

The Rollei-Magic is fitted with f/3.5 Xenar lens, Prontomat-S shutter—it takes 12 exposures $2\frac{1}{4}" \times 2\frac{1}{4}"$ on standard 120 rollfilm and two additional sizes with the use of the Masking Set No. 16.

Retail Price with tax

ROLLEI-MAGIC	£73 1 10
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ROLLEIFLASH M	£5 13 4
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SPARE NECK STRAP	£1 0 4

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MAY 29th — JUNE 3rd.

Our Representatives will be in attendance at our stand No. 117A during the duration of the fair to discuss the new introductions for this year and to give you any assistance you may require.

R. F. HUNTER LTD.

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ACCESSORIES**

**ROLLEI CAMERAS
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PROJECTORS: ALDIS, ARGUS, BRAUN, GNOME, SPECTO, EUMIG P.8 AND P.8M IMPERIAL.

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ANSCOCHROME • KODACOLOR • AGFACOLOR



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Reversal Films (Transparencies)	PROCESSING EKTACHROME (E2 & EH only) FERRANIACOLOR
Reversal Prints	From all makes of transparencies up to 2½" × 3½" using Kodak material with paper base.
Prices	Please write for latest supply of counter order forms, addressed labels and film bags, price list and brochure, etc. Wholesale photo-finishers are invited to write for preferential trading terms covering their entire colour work.

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The finest value on the market

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With 20 mm PLANKAR lens, 12 volt/100 watt lamp. Push-button operation. Picture stop device and power rewind. Cable release built-in editor.
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As Super 100 but with built-in Synchronat.
Price, including lamp, £46

SLIDE PROJECTORS

NORIMAT Semi-Automatic Control PROJECTOR. With F/2.8 Katagon 85 mm lens.
Retail price, without lamp, 17 gns.

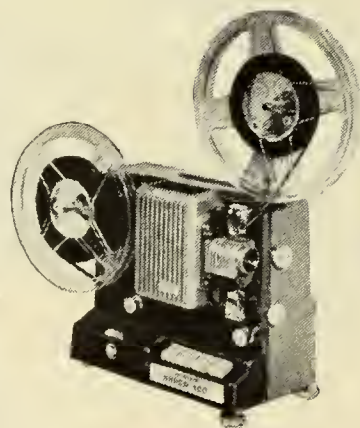
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MOVIE CAMERA f/2.7

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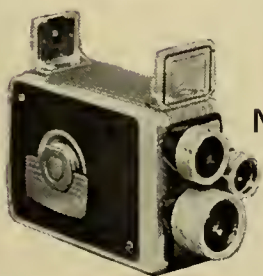
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MOVIE
f/1.9**



**BROWNIE
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f/1.9**

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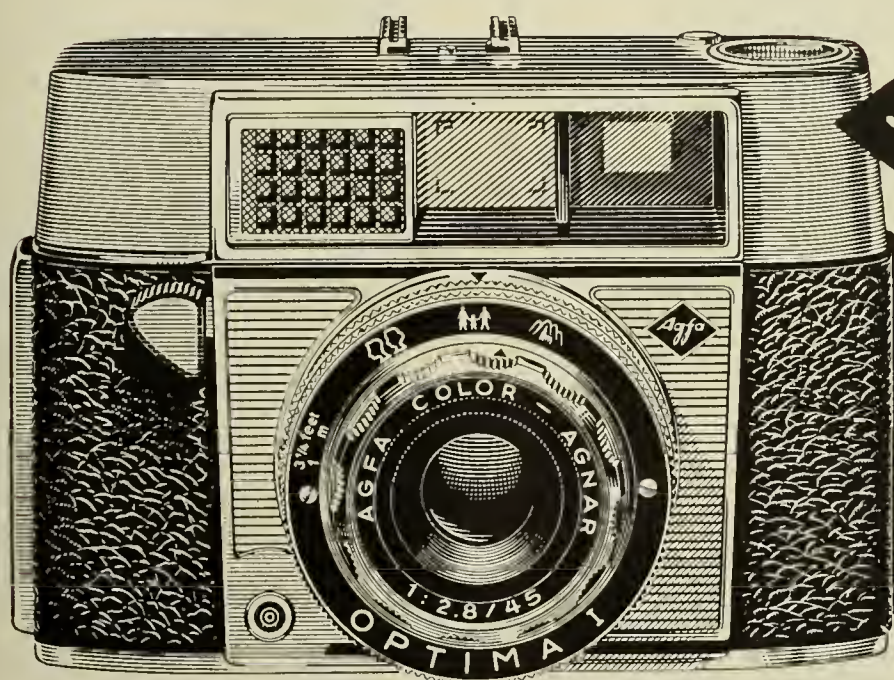
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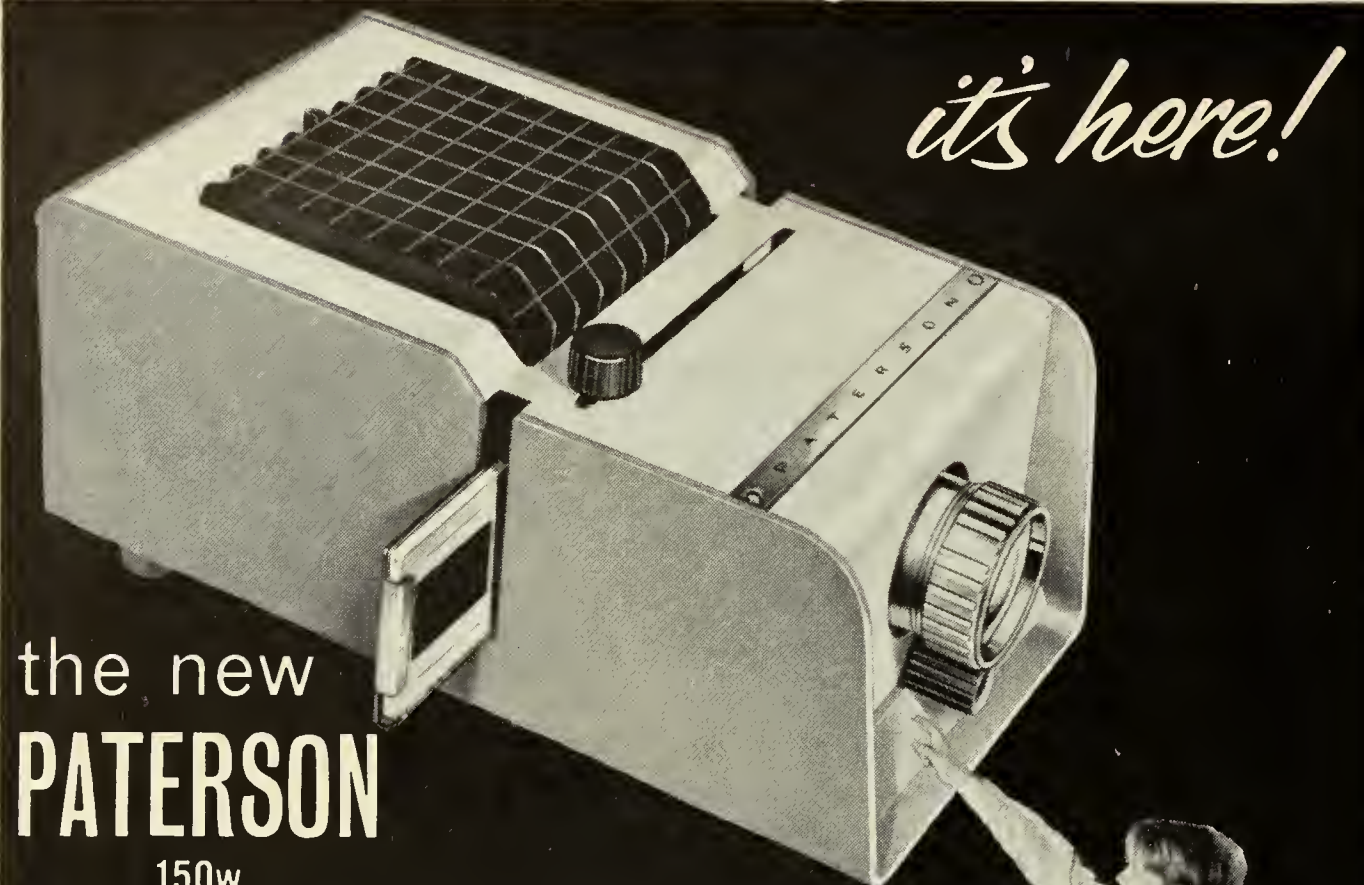
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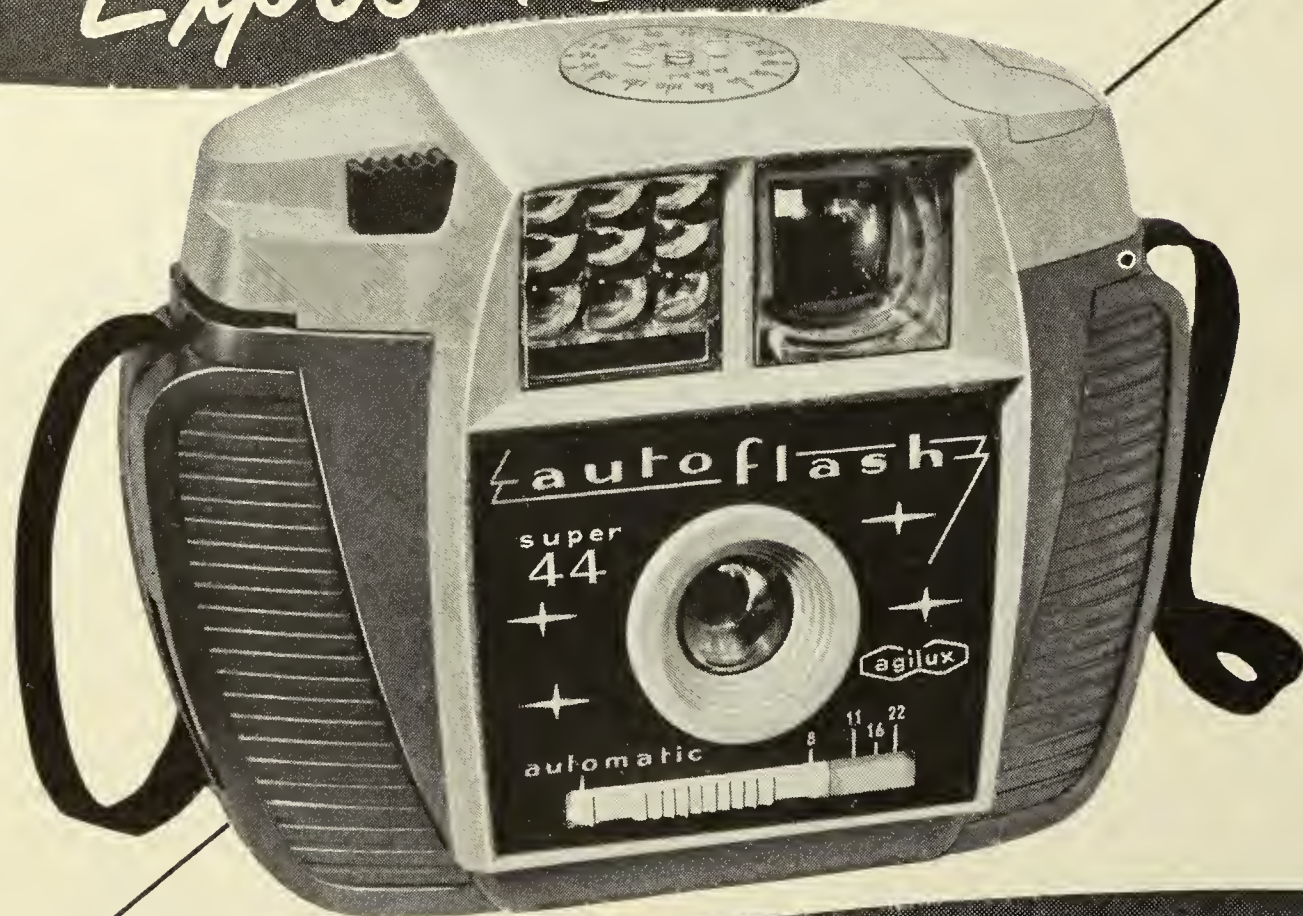
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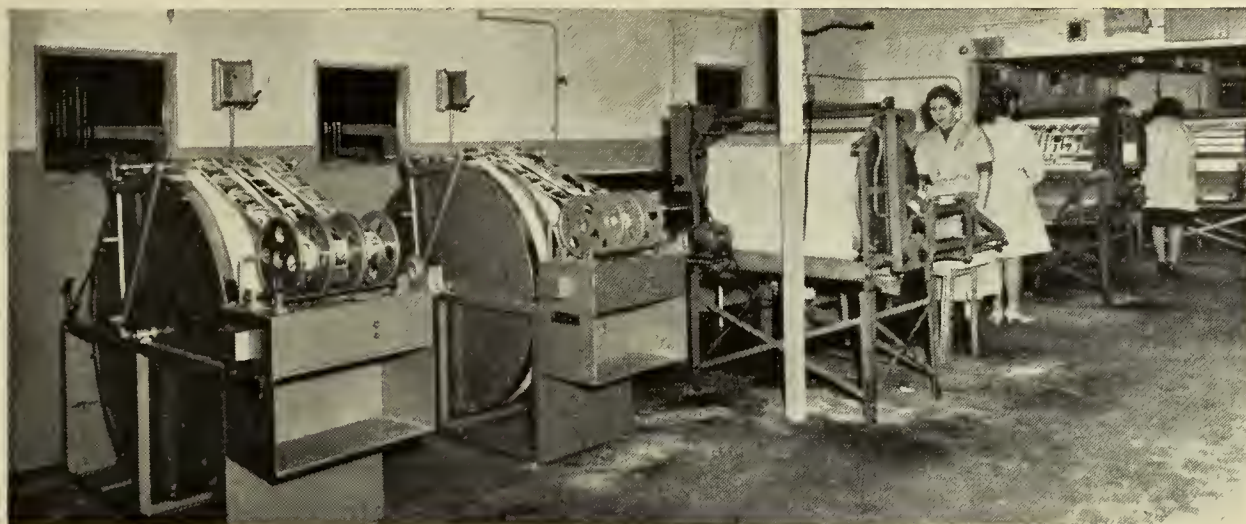
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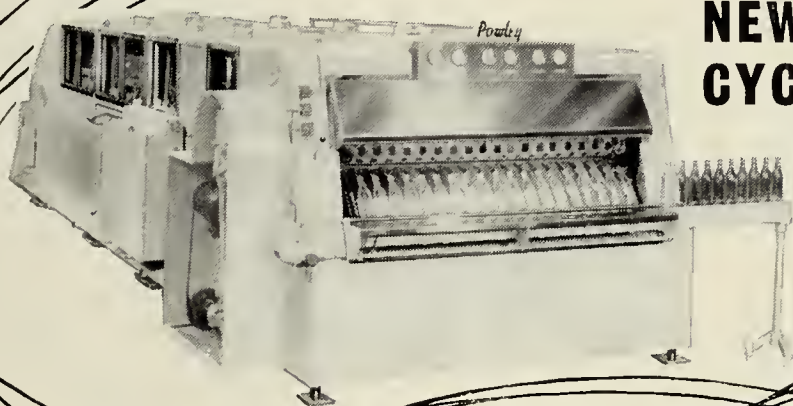
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FILM**

N5 NEGATIVE FILM
—roll films 120, 620, 127 and 35 mm cassettes, (20 exp.). 25 A.S.A.

R5 REVERSAL FILM
—roll films 120, 620, 127 and 35 mm cassettes, (20 and 36 exp.). 40 A.S.A.

R5 REVERSAL CINE FILM—16mm in 100ft. spools, and double-8 mm in 25 ft. spools. 10 A.S.A.

Top Names *in* Bottlewashing !

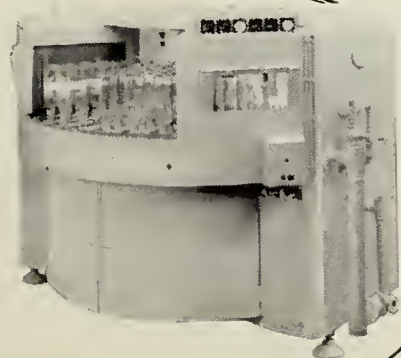
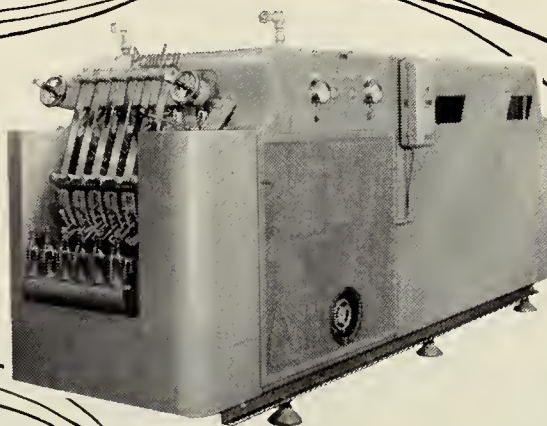


**NEW
CYCLOPS**

A straight-through machine with semi- or fully-automatic feed and automatic discharge. Outputs from 3,600 to 14,400 bottles per hour.

This smaller straight-through Hydro gives outputs from 2,160 to 3,600 bottles per hour.

'SPARTAN'



**APEX
MAJOR**

All Powley Bottlewashers have these points in common—a low basic price, efficient cleansing action and low running costs.

Of special value where floor-space is limited, The Powley Rotary Machines give outputs from 1,080 to 2,880 bottles per hour.

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BOTTLEWASHERS

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A New **SAFETY PACK** for **ZEAL CLINICAL THERMOMETERS**

Specially designed attractive
Counter display carton
for maximum sales
appeal.
Window-type individual
cartons to facilitate
inspection.

**INCREASE YOUR SALES
OF THE WORLD FAMOUS ZEAL
CLINICAL THERMOMETERS**
Acknowledged to be the best



Counter
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OBTAINABLE FROM ALL LEADING RETAIL CHEMISTS AND PHARMACISTS



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The latest fashion in continental
Sunglasses for the 1961 season.

Ask your usual wholesaler
for illustrated catalogue
showing our complete
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THE WHITECROSS 'SUN-MASTER'

An attractive revolving display stand supplied FREE
with 48 pieces of assorted black & shell sunglasses
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Prices to Public

- 12 Pieces **614NEW** 6 each black & shell... 7/6 each
- 12 Pieces **6596/K** 6 each black & shell... 10/6 each
- 12 Pieces **6364/1/K** 6 each black & shell... 12/6 each
- 12 Pieces **6299/K** 6 each black & shell... 15/6 each

These glasses are also separately supplied.

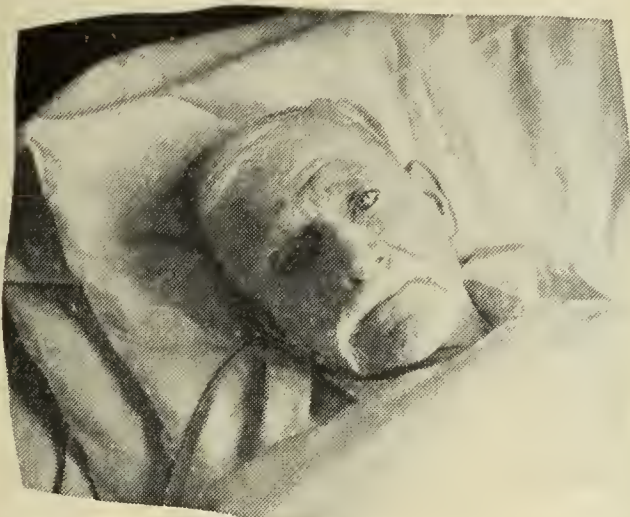


REG. TRADE MARK

Whitecross Optical Company

(Proprietors, Fredk. Lehmann Co Ltd.)
Frederick Works, Rochester Place, London N.W.1
Telephone: GULLiver 6731





Debilitated patients



During prolonged illness



After severe illness



Post-menopausal Osteoporosis

Build up these patients with 'Anapolon' the new, effective anabolic agent

When vitality is low, the appetite poor and when the patient is temporarily unable to assimilate a fully adequate diet, then it is that 'Anapolon', the new I.C.I. anabolic agent, can produce remarkable results.

'Anapolon' is distinguished by its ability to promote

the retention of nitrogen and other elements essential for tissue building. It restores the metabolic balance, stimulates the appetite and facilitates recovery in cases of febrile or wasting disease, impaired development in children, menopausal and senile osteoporosis, surgical procedures, burns and other injuries.

Anapolon
oxymetholone

TRADE MARK

Tablets (5 mg.) in 25's, 100's and 500's.
Basic N.H.S. costs 19/-, 70/- and 340/- respectively



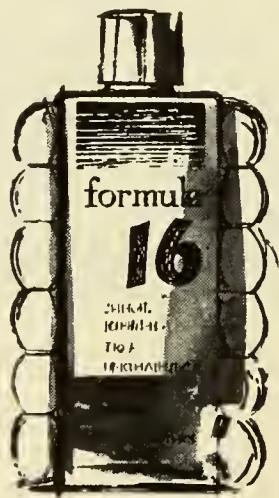
A PRODUCT OF
THE SYNTEX CORPORATION

IMPERIAL CHEMICAL INDUSTRIES LIMITED
PHARMACEUTICALS DIVISION WILMSLOW CHESHIRE
Ph. 104



IT IS OFTEN DIFFICULT TO DISCOVER THE REASON WHY A PARTICULAR LINE BECOMES POPULAR IN FACE OF SHARP COMPETITION WHILST OTHER VERY GOOD PRODUCTS FAIL TO 'CATCH ON'. WE DO NOT CLAIM TO HAVE SOLVED THIS MYSTERY, WE SIMPLY ACKNOWLEDGE ITS EXISTENCE AND ADJUST OUR AIMS AND OBJECTS IN ACCORDANCE WITH IT. AN EXAMPLE OF UNPRECEDENTED SUCCESS IS AYRTONS BRONCHIAL EMULSION WHICH HAS PROVED EXTRAORDINARILY POPULAR WITH OLD AND YOUNG ALIKE.

Manufactured by **AYRTON SAUNDERS & CO. LTD., HANOVER STREET, LIVERPOOL.**



6'6 PROFIT ON EVERY BOTTLE!

- * Every greying or grey-haired man or woman coming into your shop is a potential customer for FORMULA 16.
- * Thousands of satisfied users prove FORMULA 16 brings natural-looking colour back to grey or greying hair.
- * Every bottle of FORMULA 16 you sell represents a profit of 6/6d. Retail price 26/- incl. Tax.
- * Advertised regularly throughout 1961 in National Dailies, and National High Readership magazines.

display,
sell, make bigger profits
with **formula 16**

ORDER NOW FROM YOUR USUAL WHOLESALER.

L. E. VINCENT & PARTNERS LTD., 7 CHESTERFIELD GARDENS, LONDON W.1. GROSVENOR 4446

THE FAMILY OINTMENT of outstanding merit

ST. JAMES' BALM is the proven remedy for common skin troubles—and for some quite uncommon ones too! Because it contains the broth filtrates of the microbes causing most skin infections, treatment is successful in an exceptional number of cases. ST. JAMES' BALM is therefore the ideal general-purpose ointment for family use. On merit alone, ST. JAMES' BALM is in steadily increasing demand.

ST. JAMES' BALM

You may stock
and recommend
ST. JAMES'
BALM
with absolute
confidence.



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LONDON, S.E.25

Sole Distributors for the U.K.

ARCHER LABORATORIES LIMITED
CARGREEN ROAD, LONDON, S.E.25

PB35



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 175

March 4, 1961

No. 4229

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MORGAN BROTHERS (PUBLISHERS), LTD.,
at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

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GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679.
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which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.

They all want



the cleanliness of

WRIGHT'S
COAL TAR SOAP
THE GOLDEN TABLET IN BATH AND TOILET SIZES

Wright Layman & Umney Ltd.,
Southwark, S.E.1

An eye to business demands a good stock of **INECTO** hair colourings

Established Inecto lines
sell surely:

INECTO RAPID

permanent liquid tints, natural colours.
Wholesale 2/6 + P.T. Retail 5/-

INECTO COLOUR CREME

most modern of cream permanent tints.
Wholesale 3/4 + P.T. Retail 6/8

"HAIR MAGIC"

fabulous semi-permanent, now over 30 shades.
Wholesale 1/8 + P.T. Retail 3/10

New Inecto lines
forge ahead famously:

INECTO CREME FOR MEN

permanent cream tints already much in demand.
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CREME HAIR LIGHTENER

a rich, gentle cream, lightens and brightens
two-three shades.
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HI-LIFT ULTRA BLEACH

fastest, whitest ultra bleach, now developed
for home use.
Wholesale 1/9 + P.T. Retail 3/6

All created by Inecto, the largest and most experienced manufacturers of hair colourings in the world.

Advice Bureau: **INECTO HOUSE, 27 DOVER STREET, LONDON, W.1.** HYDe Park 7541 (12 lines)

CUMULATIVE LIST OF AMENDMENTS TO THE C.&D. Quarterly Price List

MARCH 1961

● THIS WEEK'S CHANGES GIVEN SEPARATELY AT END

Achromycin (746 Lederle)				
capsules 50 mgm	25	9	6ea	14 3 TS
100	35	8ea	53 6 TS	
250 mgm	16	25	6ea	38 3 TS
100	153	4ea	230 0 TS	
1000	1480	6ea	2220 9 TS	

for ear solution				
powder vial 50 mgm	6	0ea	9 0 TS	
diluent vial 10 mils				
for oral suspension 1.5 gm				

1 oz	9	6ea	14 3 TS	
intramuscular vial 100 mgm	4	6ea	6 9 TS	
intravenous vial 100 mgm	4	2ea	6 3 TS	
250 mgm	8	6ea	12 9 TS	
500 mgm	15	4ea	23 0 TS	
ointment 3% .. 1/2 oz	4	0ea	6 0 TS	
1 oz	7	2ea	10 9 TS	
ophthalmic ointment 1% 6	6	0ea	9 0 TS	
powder sterilised .. vial	4	10ea	7 3 TS	
oil suspension 1% 6 mils	1	8ea	2 6 TS	
pediatric drops 10 mils	6	6ea	9 9 TS	
soluble tablets .. 100	35	8ea	53 6 TS	
syrup .. 2 oz	9	6ea	14 3 TS	
16 oz	68	8ea	103 0 TS	
tablets 50 mgm .. 25	9	6ea	14 3 TS	
100	35	8ea	53 6 TS	
250 mgm .. 16	25	6ea	38 3 TS	
100	153	4ea	230 0 TS	
1000	1480	6ea	2220 9 TS	
troches 15 mgm .. 25	3	8ea	5 6 TS	

Achromycin V (746 Lederle)				
capsules 50 mgm	25	9	6ea	14 3 TS
100	35	8ea	53 6 TS	
250 mgm	16	25	6ea	38 3 TS
100	153	4ea	230 0 TS	
1000	1480	6ea	2220 9 TS	
pediatric drops 10 mils	6	6ea	9 9 TS	
syrup .. 2 oz	9	6ea	14 3 TS	
16 oz	68	8ea	103 0 TS	

Albion (339 CG)				
cotton wool .. 1 oz	5	5		
2 oz	8	8		
4 oz	14	7		
8 oz	25	5		
16 oz	3	10 1/2ea		

Ambramycin (70 Aspro)				
capsules 250 mgm	16	25	6ea	TS
60	92	0ea		TS
250	372	6ea		TS
suspension 2.5% 60 mils	9	6ea		TS

Aspelin (1023 Radiol)				
aspirin liniment dp 16 oz	132	0	16 6	
dp 80 oz	600	0	75 0	

Aureomycin (746 Lederle)				
capsules 50 mgm	25	9	6ea	14 3 TS
100	35	8ea	53 6 TS	
250 mgm	16	25	6ea	38 3 TS
100	153	4ea	230 0 TS	
1000	1480	6ea	2220 9 TS	
ear solution 50 mgm vial	6	0ea	9 0 TS	
ointment 3% .. 1/2 oz	4	0ea	6 0 TS	
1 oz	7	2ea	10 9 TS	
ophthalmic 1% 6 x 1/2 oz	6	0ea	9 0 TS	
sterilised vial .. 4	10ea	7 3 TS		
soluble tablets 50 mgm 100	35	8ea	53 6 TS	
syrup .. 4 oz	19	0ea	28 9 TS	
16 oz	68	8ea	103 0 TS	
troches .. 25	3	8ea	5 6 TS	

Ayrton (78 AS&Co)				
fairyspun leg tan	14	0	7 0	2 9

Breck (1169 GS&S)				
shampoo sachet	7	0	1 9	1 0

Cirotyl (938 PD) all sizes				
Cirotyl (938 PD)				
suspension .. 4 oz	34	0	8 6	4 11 1/2
80 oz	36	0ea	9 0ea	63 0

Cussons (338 Cussons)				
luxury soaps				
"Four Diamonds" .. 2084	19	0	4 7 1/2	2 6
"Hungarian Rhapsody" .. 2160	23	0	5 7 1/2	3 0
"Rhapsody in Black" .. 2164	23	0	5 7 1/2	3 0
"Rhapsody in Blue" .. 2162	23	0	5 7 1/2	3 0

Dalmas (347 Dalmas)				
elastic first aid dressings				
cabinets .. No. 1	8	6		1 0
No. 2	8	0ea		11 3
No. 3	8	0ea		11 3
refills	7	3ea		10 0
6 3ea				8 9
9 3ea				13 0
surgery cabinet No. 135				
waterproof strip dressings				
1 1/2 in x 1 yd	20	0		2 4
2 in x 1 yd	24	3		2 10
2 1/2 in x 1 yd	27	9		3 3
3 in x 1 yd	32	3		3 9

Drapolene (218 Calmic)				
cream .. 2 oz	29	4		3 8
1 lb	120	0		15 0

Gem (365 Demuth)				
dry shampoo ..	18	10	4 8 1/2	2 9

Gevral (746 Lederle)				
capsules .. 30	11	4ea	2 10ea	19 10

Hematest (843 ML)				
tablets .. 50	90	0		11 3

Kleinerts (706 Kleinerts)				
Viking swim caps				
Pompadour .. 3021	383	0	19 2 1/2	49 6

Ledermycin (746 Lederle)				
capsules 150 mgm .. 16	25	6ea	38 3 TS	
100	153	4ea	230 0 TS	
1000	1480	6ea	2220 9 TS	
drops .. 10 mils	6	6ea	9 9 TS	
syrup .. 2 oz	9	6ea	14 3 TS	
16 oz	68	8ea	103 0 TS	

Madribon (1074 Roche)				
syrup .. 50 mils	76	0	9 6	TS4B
500 mils	52	8ea	79 0	TS4B

Margo's (798 Margolis)				
baby powder ..				
8 0	2	0	1 3	
12 6	3	1 1/2	2 0	
6 6	3	3	1 3	
hair lacquer aerosol ..	27	6	13 6	4 11
spray bottle ..	11	0	5 6	2 0
refill sachet ..	3	6	1 9	1 0
petroleum jelly ..	9	0		1 0
18 0			2 0	
razor blades blue .. 25	31	8	7 11	1 6
(1000)		(1000)		

shampoo				
egg & lanolin sachet	21	0	5 3	4
gross		gross		
twin pack sachet	41	0	10 3	7
gross		gross		
bottle .. 4 oz	9	0	2 3	1 6
medicated				
twin pack sachet	41	0	10 3	7
gross		gross		
bottle .. 4 oz	9	0	2 3	1 6

talcum powder				
bouquet of flowers,				
honey, lily of the				
valley, rose ..	16	8	8 4	2 11
lavender ..	7	2	3 7	1 6
16 8		8 4	2 11	
tonic hair cream sachet	1	8	10	3
large	7	2	3 7	1 6
giant	12	6	6 3	2 6

Niagara (90 B&F)				
blackcurrant drink 12 oz	33	9		3 6

Numorphan (179 BDH)				
Snapules 1-1 mil .. 6	90	0		11 3 DD
25	288	0		32 5 DD

Occultest (843 ML)				
tablets .. 50	90	0		11 3

Persantin (154 B)				
ampoules 10 mgm .. 5	6	6ea	1 7 1/2ea	11 4 1/2
25	24	6ea	6 1 1/2ea	42 10 1/2
30	9	6ea	2 4 1/2ea	16 7 1/2
200	57	0ea	14 3ea	99 9

Portyn (938 PD)				
Kapseals .. 30	80	0	20 0	11 8
250	51	8ea	12 11ea	90 5

Primes (1277 VI)				
roll ..	7	6	1 10 1/2	1 0
carton ..	18	10	4 8 1/2	2 6
3 roll ..	20	10	5 2 1/2	2 9
large ..	36	0	9 0	4 9

Robinade (285 Colman) sachet				
9 4gross				1

when prescriptions call for INSULINS, supply

WELLCOME

 brand

● SOLUBLE ● LENTE ● PROTAMINE ZINC ● GLOBIN



BURROUGHS WELLCOME & CO (The Wellcome Foundation Ltd.) LONDON

Sanilav (671 Jeyes)									
plastic pack ..	24	8	..	..	2	9			
Suba-Seal (479 WF)									
feeding bottle, polythene									
4 oz ..	..	..	..	..	1	3			
8 oz ..	..	..	..	..	1	6			
Swift (581 Haynor)									
battery shaver ..	36	3ea	8	10ea	58	10			
Therex (1277 VI)									
tablets ..	26	6	6	7½	3	6			
	47	3	11	10	6	3			
Virugon (97 Bayer)									
tablets ..	48	10	Sea	2	Sea	18	8	†	
	500	105	Sea	26	5ea	184	11	†	
Yestos (422 EGC)									
irradiated puppy powder									
8 oz ..	38	0	..	..	4	0			
veterinary yeast tablets	100	12	0	..	1	6			
1000	77	0	..	..	8	6			
2500	15	0ea	..	..	20	0			
Yestos E (422 EGC)									
veterinary yeast tablets	75	32	0	..	4	0			
250	80	0	..	..	10	0			
1000	25	0ea	..	..	37	6			

AMENDMENTS TO KEY TO SUPPLIERS:

(973 Pharmethicals)=PHARMETHICALS (LONDON), LTD., Victoria Way, Burgess Hill, Sussex. Burgess Hill 2737.
(1276 Vibac)=VIBAC LABORATORIES, LTD., 90 High Street, Bovingdon, Herts. Bovingdon 3289.

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time.

A=Advanced, R=Reduced.

Entries new this week are marked thus:—●

Andre Philippe (48 AP)									
A spray lacquer aerosol ..	29	0	14	6	4	9			
Colgate (280 CP)									
A dental cream ..	21	6	5	4	2	10			
Dalmas (347 Dalmas)									
A elastic strip dressing									
1½ in × 1 yd ..	20	0	..	..	2	4			
2 in × 1 yd ..	24	3	..	..	2	10			
2½ in × 1 yd ..	27	9	..	..	3	3			
3 in × 1 yd ..	32	3	..	..	3	9			
Dibexin (938 PD) capsules									
Delete packs of 25									
R Embazin (971 PSMB)	2oz	30	0	..	3	9	p1s1		
	10oz	112	0	..	14	0	p1s1		
	20oz	208	0	..	26	0	p1s1		
	80oz	800	0	..	100	0	p1s1		
Emplets (938 PD)									
Delete thyroid ovarian packs of 500									
Johnsons (672 Johnson)									
A baby napkins 26 × 26 in	20	6	..	..	27	0			
● LiquiSprayer R (1380 Liquinure)	33	0ea	..	..	49	6			
● Majeptil (971 PSMB)									
tablets 1 mgm ..	50	90	0	22	6	13	1½ p1s4B		
	250	360	0	90	0	52	6 p1s4B		
5 mgm ..	50	260	0	65	0	37	11 p1s4B		
	250	186	8ea	21	Sea	151	8 p1s4B		
Modess (672 Johnsons)									
sanitary towels									
A cotton wool size 1 ..	12	19	3	..	2	1			
A size 2 ..	12	23	0	..	2	6			
R Mysteclin F (1176 Squibb)									
for syrup ..	60	7ea	..	..	15	11			
for paediatric drops 10 mils	7	4ea	..	..	11	0			
R Mysteclin V (1176 Squibb)									
capsules ..	12	20	9ea	..	31	2			
	100	166	3ea	..	249	5			
	500	780	0ea	..	1170	0			
Navidrex (262 CIBA)									
tablets ..	25	48	0	..	6	0			
	100	180	0	..	22	6			
	500	72	6ea	..	108	9			
● Primogyn Depot (1107 SAGB)									
100 mgm ampoules ..	3	52	0ea	..	78	0	p1s4B		
	20	270	0ea	..	411	0	p1s4B		

Samona (1096 Samona)									
Delete tablets No. 2									
Scherk (128 Biometica)									
Delete 7102									
● Skefron (1153 SKF)	100	0	25	0	14	7			
Sparine (1352 Wyeth)									
● Latabs ..	20	64	0	..	7	2	p1s4B		
	250	53	9ea	..	71	8	p1s4B		
● Sunnybisk (535 Granose)									
small	9	1	..	..	11				
● Tattoo (451 F&J)									
spiral brush-on mascara	45	0	22	6	7	6			
R Tetracycl (969 Pfizer)									
capsules 50 mgm ..	100	35	8ea	..	53	6	TS		
250 mgm ..	16	25	6ea	..	38	3	TS		
	100	153	4ea	..	230	0	TS		
	1000	1480	6ea	..	2220	9	TS		
intramuscular injection									
100 mgm ..	..	4	6ea	..	6	9	TS		
intravenous injection									
250 mgm ..	..	8	6ea	..	12	9	TS		
500 mgm ..	..	15	4ea	..	23	0	TS		
oral suspension 1.5 gm	..	9	6ea	..	14	3	TS		
paediatric drops 1 gm	..	6	6ea	..	9	9	TS		
tablets 50 mgm ..	25	9	6ea	..	14	3	TS		
	100	35	8ea	..	53	6	TS		
	100	25	18	9ea	28	1½	TS		
	100	70	10ea	..	106	3	TS		
	250	16	25	6ea	38	3	TS		
	100	153	4ea	..	230	0	TS		
	1000	1480	6ea	..	2220	9	TS		
topical ointment 3% ..	½ oz	4	0ea	..	6	0	TS		
	1 oz	7	2ea	..	10	9	TS		
R Tetracycl-P (969 Pfizer)									
capsules ..	16	25	6ea	..	38	3	TS		
	100	153	4ea	..	230	0	TS		
	1000	1480	6ea	..	2220	9	TS		
R Tetracycl-S.F. (969 Pfizer)									
capsules ..	16	26	6ea	..	39	9	TS		
	100	159	2ea	..	238	9	TS		
	1000	1537	0ea	..	2305	6	TS		
R Terramycin (969 Pfizer)									
capsules 50 mgm ..	100	35	8ea	..	53	6	TS		
250 mgm ..	16	25	6ea	..	38	3	TS		
	100	153	4ea	..	230	0	TS		
	1000	1480	6ea	..	2220	9	TS		
intramuscular injection									
100 mgm ..	..	4	6ea	..	6	9	TS		
intravenous injection									
250 mgm ..	..	8	6ea	..	12	9	TS		
500 mgm ..	..	15	4ea	..	23	0	TS		
nasal solution ..	5 mils	4	1ea	..	6	1½	TS		
ophthalmic solution									
25 mgm ..	5 mils	5	4ea	..	8	0	TS		
oral suspension 1.5 gm	..	9	6ea	..	14	3	TS		
paediatric drops 1 gm	..	6	6ea	..	9	9	TS		
soluble tablets 50 mgm	25	10	3ea	..	15	4½	TS		
syrup 125 mgm/5 mils									
60 mils	9	6ea	..	14	3	TS			
tablets 50 mgm ..	25	9	6ea	..	14	3	TS		
	100	35	8ea	..	53	6	TS		
	100	25	18	9ea	28	1½	TS		
	100	70	10ea	..	106	3	TS		
	250	16	25	6ea	38	3	TS		
	100	153	4ea	..	230	0	TS		
	1000	1480	6ea	..	2220	9	TS		
topical powder 3% ..	1 oz	8	0ea	..	12	0	TS		
troches 15 mgm ..	24	3	8ea	..	5	6	TS		
vaginal tablets 100 mgm	10	10	1ea	..	15	1½	TS		
topical ointment ..	½ oz	4	0ea	..	6	0	TS		
	1 oz	7	2ea	..	10	9	TS		
	200 gm	46	0ea	..	69	0	TS		
S.F. capsules ..	16	26	6ea	..	39	9	TS		
	100	159	2ea	..	238	9	TS		
	1000	1537	0ea	..	2305	6	TS		

AMENDMENTS TO KEY TO SUPPLIERS:

(1380 Liquinure)=LIQUINURE SALES, LTD., 19 Duke Street, London, W.1.

SAFER HYPNOTIC-ANALGESIC

combination for insomnia associated with pain

THE DISTILLERS COMPANY (Biochemicals) LIMITED
SALES DIVISION, LIBerty 6600, LONDON

'Valgis'

TRADE MARK

ANNA PEGOVA

PARIS

TREATMENT FOR ACNE SKIN CONDITIONS

This unique and only COMPLETE and proven TREATMENT OF ACNE is now being manufactured under licence and supervision in Great Britain.

Private chemists only in larger centres are invited to take over an agency on an EXCLUSIVE basis of ONE first-class Distributor IN EACH TOWN.

Please write or phone for particulars to :

BICK OF MAYFAIR LTD., 18 Fortune Green Road, London, N.W.6

Telephone: HAMPSTEAD 0546

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haemorrhoidal suppositories
and ointment
boxes of 12 & 100: tubes of 20G.

rheusalate

anti-rheumatic paste
tubes of 40G.

tripectol

cough linctus
4-oz., 20-oz. & 80-oz. bottles.

The above ethical medical products are now being introduced to the medical profession. Order supplies from your usual wholesaler, or from 73, Shacklewell Lane, London, E.8.



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WILLOWS FRANCIS LTD *Pharmaceutical Manufacturers since 1751*
ASHLEY ROAD, EPSOM, SURREY & LONDON


PHARMACEUTICAL MANUFACTURING COMPANY
The Local Anaesthetic Specialists





LOVE Can you resist the charm of a baby? Of course
AT FIRST not. But multiply your own affection by twelve
SIGHT million—the number who will see
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lions more for the conquests he will make
through the women's
magazines and else-
where. That adds up to an awesome amount of affection . . . a
mountain of goodwill for Glaxo . . . a whole heap of extra sales for
Ostermilk and Farex. How about those stocks of yours?

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Drugs and medicinal preparations manufactured in the USSR have won the world acclaim. At present, V/O "Medexport" exports more than 500 items of various medicinal preparations.

The quality of these preparations is fully equal to the requirements of the State Pharmacopoeia of the USSR.

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Telephone : G-4-22-84

THE FAMOUS

ROXY *watertight*
BATHING CAP

**NOW -
available in
small size
no. 4**

Sizes are now:—Small 4, Medium 5, Large 6, with a choice of eight distinctive colours—White, Pink, Red, Delphinium, Royal, Green, Yellow and Black. **BOXED SINGLY** Order your supplies now!

ROXY caps are distributed by:
PAD FACTORIES LIMITED • 10 KING EDWARD STREET • LONDON • EC1



DOUBLE PROFITS

FOR THREE MONTHS ON REMINGTON SHAVERS!



Here's great news! Great new business is on the way for every Remington dealer.

From 1st June, the selling price of the Remington 657 standard model—which will continue in the Remington range through 1961—will be reduced by £2 os. od. to £7 5s. od. (including purchase tax). But from 1st March, you can buy this model from your usual supplier at the new low price of £4 9s. 4d. (plus purchase tax).

With this scheme you have three months—March, April and May—during which you continue to sell at the present price of £9 5s. od., with every sale showing a *double profit*.

No other shaver manufacturer offers you such profitable opportunities, so don't miss this great Remington offer. Take full advantage by organising your own Remington displays, your own Remington promotions, your own local advertising. (Blocks and display material are available from Remington.) Make sure of your three months double profit by ordering from your supplier now!

REMINGTON ELECTRIC SHAVER LTD.

26-40 Kensington High Street, London W.8



THE LIGHTWEIGHTS WITH THE GUARANTEED GLASS LENSES

BARNET 'ULTRAGLAZE' lightweights with special Crookes Lenses have built a sunny reputation for quality at a still reasonable price just 10/6d, 12/6d and 15/- a pair.

In exciting new easy-access packs, Ultraglaze assortments come with this space-saving FREE REVOLVING DISPENSER.

4 DOZEN ASSORTMENT
over all nine models, costs retailer only £19.16.0d.

2 DOZEN TRIAL ASSORTMENT
cf half quantities, costs retailer £9.18.0d.

ULTRAGLAZE LENSES are expensive fully curved 'coquille' type, correctly tinted for good colour rendering and, being glass, are easily cleaned without scratching.

GUARANTEED to conform to the high standards shown in the laboratory reports supplied with every assortment.

BARNET

Ultraglaze



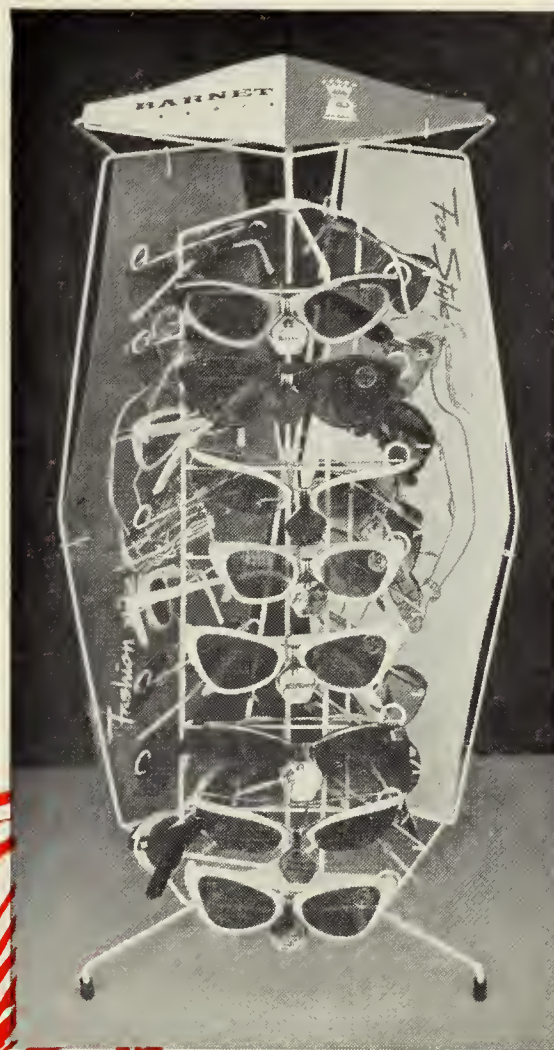
Order from your wholesaler now!

E. R. HOLLOWAY SALES LIMITED (Wholesale only) WELWYN GARDEN CITY, HERTS.

FOR BRIGHTER SALES THIS SUMMER

BARNET "LEADER" SUNGLASSES offer top styling and superb values in the medium price range: 2/-d. to 7/6d. to suit all pockets.

The "leader" range covers framed, rimless and decorated lightweights, available in carefully composed assortments of 2 dozen and 6 dozen, attractively displayed for quick moving sales.



ASSORTMENTS WITH FREE DISPENSERS

NO. 5. Leader Assortment of 6 dozen: 2/- to 5/-.
Costs retailer only £9.6.0d.

NO. 7. Leader Assortment of 6 dozen: 2/6 to 7/6.
Costs retailer only £11.4.0d.

With Folding Wire Dispenser:—

NO. 2. Two dozen assorted 4 lightweights 2/6 to 5/-
or with any 2 dozen of 2 leader models.

BARNET

Leader!

Contact your wholesaler today!

Please ask for details of
complete BARNET ranges in display
boxes, carded etc.



BOOTS' 365 TALCUMfilled by **ALBRO**

Yet another important organisation selects ALBRO machines for high output.

The ALBRO 2-head powder-filler illustrated here is being used by Messrs. Boots Ltd. to fill their 365 Talcum Powder.

Operated by unskilled labour, this machine can fill bottles, tins, cartons or drums of up to 1½ lb. capacity at speeds of up to 3,600 per hour, depending on the size of container.

The exclusive vacuum operation ensures completely dustless filling—is so efficient that specially reduced insurance rates are obtainable when powders of a deleterious or abrasive nature are filled.

Other models are available with outputs of up to 7,200 containers per hour.

Ask for details or a demonstration.



ALBRO Filling Machines

for Liquids, Powders & Pastes

ALBRO FILLERS & ENGINEERING CO. LTD.,
WHARF ROAD, PONDERS END, MIDDLESEX

Telephone: Howard 2622 (5 lines)

Telegrams: Albromach, Enfield

**ASPIRIN B.P.**

"Free-Flo" Granular, Needle Crystals and Powder

SALICYLAMIDE**PARACETAMOL****SODIUM SALICYLATE B.P.**

Flake and Powder

ACETANILIDE B.P.C. 1949

Please write for samples and quotations

BUSH

**FINE CHEMICAL
MANUFACTURERS**

W. J. BUSH & CO. LTD. LONDON. E.8. ENGLAND



BE PREPARED for
increased demands which

- ★ TELEVISION FILM
 - ★ NATIONAL PRESS
 - ★ LONDON TRANSPORT
- ADVERTISING MUST
CREATE

Be sure of satisfying your customers
requests. Display VELOUTY
POWDER CREAM on your
counter NOW

PRICES : —

TUBES : No. 2	No. 3
TRADE : 8/- doz.	13/2 doz.
RETAIL : 1/4 each	2/3 each
JARS	
TRADE : 19/2 doz.	RETAIL 3/3

FROM YOUR USUAL WHOLESALER OR DIRECT :—

DIXOR LTD.
ST. LEONARD'S RD. MORTLAKE, LONDON. S.W. 14



delighted and astounded !

WRITES

MR. H. W. STOCKER, M.P.S.,
OF EXMOUTH, DEVON :

9th January, 1961

Dear Sir,

At last I find time to write about my re-fitted shop.

I am absolutely delighted with the results and the appearance of the shop is really good.

The increase in sales really astound me and I only wish I had "taken the plunge" some years ago!

May I, in conclusion, commend your workmen on their speed, efficiency and general helpfulness.

The illustration shows a typical Salesmaster installation.

It's a proven fact—a Salesmaster re-fit will increase sales. You may have seen some of our installations and you have probably read about the wide variety of attractive finishes available for the extensive range of standard and specialised units.

It is time that you found out for yourself what we can do for *your* pharmacy. Post the coupon now for full details of our Free Planning and Advisory service.

SALESMASTER SHOPFITTINGS LTD.
Regent House,
Dock Road, Birkenhead,
Cheshire. Tel.: Birkenhead 8794.



Salesmaster



C.D./3/61

NAME

ADDRESS

CASH IN ON KISBY!!

the Dry Shampoo Powder in the Sell-On-Sight Polythene Tube

KISBY . . . the wonderful new dry shampoo with a strong practical appeal to women ! Simply apply it . . . rub in . . . and brush out after ten minutes. A novel and original line in an eye-arresting polythene pack ! Display KISBY and it will sell itself. KISBY—the new Dry Shampoo Powder—will make new customers for you and bring you extra profits.

BONUS OFFER—13 TO THE DOZEN !

METAL STAND DISPLAY UNIT HOLDING TWELVE 2/9 TUBES SUPPLIED FREE WITH EVERY INITIAL ORDER OF 2 DOZEN OR MORE TUBES.

Available from Wholesalers or direct from

ROBERTS CHEMISTS (BOND ST.) LTD.,
76 New Bond Street, London W.1 Mayfair 4173-4



from
Paris

PRICE STRUCTURE

Size	Retail (inc. tax)	Wholesale (per doz.)	P.T. (per doz.)
4 Shampoo Tube In 2 doz. display carton	2/9	21/-	5/3
20 Shampoo Tube	6/8	50/-	12/6

Distributors for Scotland and Northern Ireland :
Messrs. JACKEL & Co. Ltd., 247, St. Vincent Street,
GLASGOW, C.2

**The DOMESTOS
BIGGEST EVER**

**Press and
Television
Campaign**

STARTS
MARCH
13th



**Never have
your customers
had it so good!**

...so good, because it is the most powerful
disinfectant lavatory cleanser you can sell

More DOMESTOS is sold than any other lavatory cleanser

L'Oreal of Paris

launch a new revolutionary shampoo-type hair colouring for concealing GREY HAIRS

Color-Match

trade mark

an absolutely harmless liquid colouring
as easy to use as **Color-Glo**

trade mark

COLOR-MATCH colours grey hairs to match the rest of the hair—without changing its natural basic colour. It appeals to an entirely new market. It can double your hair colouring sales.

There are some eleven million women in the country with grey hairs in their head. The vast majority do not like them, and would jump at the opportunity of concealing them, if they could be assured of doing it easily, quickly, harmlessly, and without changing the natural basic colour of their hair.

Color-Match does all this. It is as easy to use and as effective in its specific way as successful Color-Glo.

The market for colourings to conceal grey hair has hitherto been retarded, because all really effective products have needed a skin test and have been complicated and difficult to carry out successfully. In addition they permanently change the colour of the hair, so that once having begun, a woman could not revert to her original colouring.

Color-Match overcomes all these

obstacles, it needs no skin test, is as simple to use as a shampoo, is semi-permanent, lasts through 6-8 shampoos, and leaves the hair in beautiful condition.

A self-lathering liquid, it colours the grey hairs to match the natural hair colour, without changing the basic shade of the hair. If the hair is dark brown it stays dark brown, if it is light brown it stays light brown, except that the grey hairs will have been coloured to match the shade of the rest of the hair.

Color-Match is certain to create an entirely new hair colouring market, from which you will earn big new profits. It has behind it the same brilliant research, the same marketing insight and sales know-how that have made Color-Glo the most successful and biggest-selling hair colouring in the country.



From L'OREAL OF PARIS makers of top-selling COLOR-GLO

Over 13,000,000 Women
to see this
COLOR-MATCH advertising

Nation-wide Campaign starts
March 15th in

WOMAN
WOMAN'S OWN
EVERYWOMAN
WOMAN & BEAUTY
MODERN WOMAN
SUNDAY EXPRESS

Make sure you have a complete range
of Color-Match shades before the
nation-wide advertising campaign begins

Your wholesaler has supplies or you can order direct from
GOLDEN LIMITED, 7, Grosvenor Street, London, W.1.

Available in six beautiful shades of brown

DARK BROWN
DARK WARM BROWN
MID-BROWN
MID-WARM BROWN
LIGHT BROWN
LIGHT GOLDEN BROWN

Retail Price 5/6 per bottle. Trade Price 33/- per doz.

Purchase Tax at 50% 16/6 per doz.

Retail Profit Margin 16/6 per doz.

Keep that Youthful Look
in Your Hair with
natural-as-natural Color-Match



Naturally colours-in those
Stray Grey Hairs
without changing your own colour

THIS IS FOR YOU, the lively beauty-conscious woman of today, who has zest and enthusiasm for life, and who wants to keep her looks as young as her personality.

COLOR-MATCH is a wonderful new product by L'Oreal of Paris—as quick and pleasant to use as a shampoo. It naturally colours-in those stray grey hairs, whether they are few or many, so they blend invisibly into the natural colour of your hair, without changing your personal hair colouring.

COLOR-MATCH is not a hair dye, but something entirely new and different, which actually adjusts its colour to suit your own individual hair colouring. If you have light brown hair you stay light brown, if you are medium brown you stay medium brown, if you are dark brown you stay dark brown. But what were grey hairs will now match in perfectly with the colour of the rest of your hair.

COLOR-MATCH won't rub off on pillows, hats or clothes, and is unaffected by rain or bathing. The effects last through 6-8 shampoos, so should you not want to go on using COLOR-MATCH, its effects will fade pleasantly and naturally, leaving your hair as it was before.

An absolutely natural result

Your closest friend will not know you have used COLOR-MATCH—so natural are the results. And COLOR-MATCH is completely harmless. Indeed, it is actually good for your hair, improving its condition, giving it shine and softness and making it wonderfully easy to manage. COLOR-MATCH does not in any way affect permanent waving.

As quick and easy
as a shampoo!



Color-Match is so simple to use. You just lather it on like a shampoo, leave 15 minutes, and rinse off.

You need not hesitate about concealing your grey hairs with COLOR-MATCH, it is so safe and easy to use, that if you can shampoo your hair you can use COLOR-MATCH. And COLOR-MATCH results never vary—always you will get that natural-as-natural look, and perfect matching-in of few or many grey hairs.

How to choose your shade of Color-Match
Choose the shade nearest your own hair colour. If in doubt, choose one shade lighter than your natural colour.

DARK BROWN	DARK WARM BROWN
MID-BROWN	MID-WARM BROWN
LIGHT BROWN	LIGHT GOLDEN BROWN

Color-Match

"Matches-in" those stray grey hairs

Effects last through 6-8 shampoos

A creation of L'OREAL · PARIS The World's Greatest Makers of Hair Beauty Products.





ANNOUNCEMENT

ENPAC

UNIFLOR

The Nutrition Department of Wilts United Dairies Ltd. proudly announce that they have been appointed sole distributors in the U.K. for the *Lactobacillus acidophilus* preparations developed by the Biologicals Division of Aplin & Barrett Ltd.

These preparations, ENPAC and UNIFLOR, already enjoy the confidence of many doctors, and it is the intention of Wilts United Dairies to encourage much wider interest by a vigorous promotional campaign, coupled with a reduction in selling prices.

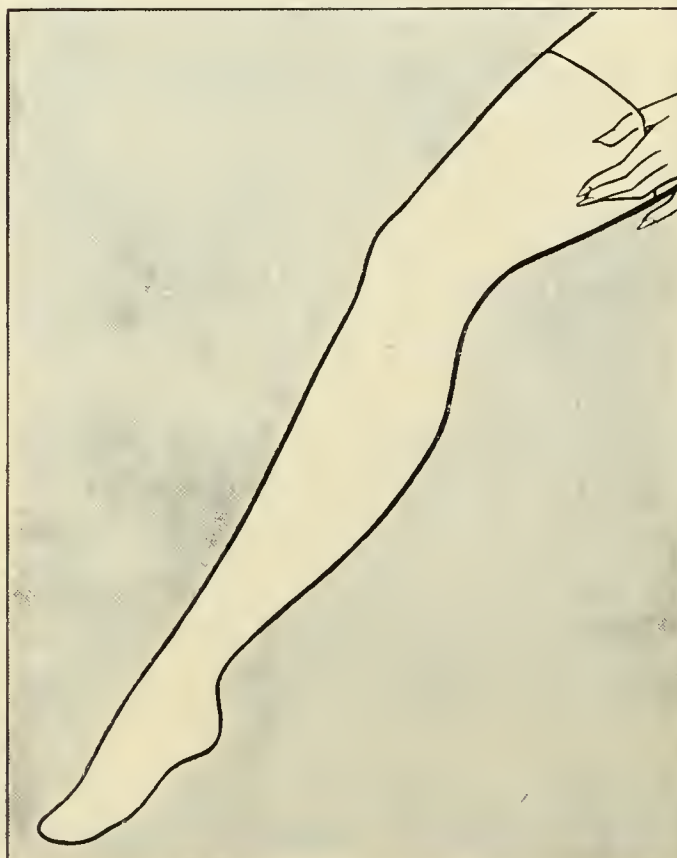
Please address all orders and enquiries to:

**WILTS UNITED DAIRIES
LIMITED**
NUTRITION DEPT.
TROWBRIDGE WILTS

VARICOSE VEINS!

Lastonet

is sound advice!



Advise your customers suffering from Varicose Veins and similar leg conditions to wear Lastonet — the surgical stockings which are made of the coolest, firmest and most comfortable elastic net imaginable. Lastonet are made to measure. They are available under the N.H.S. and are despatched within 3-5 days of receipt of your order. Recommend the best, recommend Lastonet.

LASTONET PRODUCTS LTD

CARN BREA · CORNWALL

A high profit note
for you with...

33 $\frac{1}{3}$ %

Racapan Sanitary Block 1/9
Air Freshener & Moth Block 1/3
Air Freshener Container 2/9
Racalav Toilet Tablet 9d
Racalet Lavender Tablet 9d
Racalet Plastic Container 1/6
Racasan Channel Block 1/3

25%

Fly Killer Aerosol 3/9 and 6/9
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plus quantity terms

PLUS RACASAN BONUS

JANUARY 1st
APRIL 10th



2 $\frac{1}{2}$ %

on 3 dozen

5%

on 6 dozen

7 $\frac{1}{2}$ %

on 1 gross or more



RACASAN LTD

ELLESMERE PORT • CHESHIRE

★ **SUPPOSITORIES**



MANUFACTURED BY
SKILLED LABOUR
from
**HIGHEST QUALITY
MATERIALS**

YOU CAN ORDER WITH
CONFIDENCE FROM

RICHARD DANIEL & SON LTD.

MANUFACTURING CHEMISTS

MANSFIELD ROAD, DERBY — Tel: 40671 (10 lines) AND AT ASHTON-UNDER-LYNE — Tel: 5161 (9 lines)

*A reminder
for your 'wants list'*

falapen

REGD.

*Your wholesaler
has it in cartons
of 100 foil-pack tablets
at 55s. net.*



DUNCAN, FLOCKHART & CO. LTD., EDINBURGH 11

—the recognised house for ETHICALS in the North East—



**"The Service
with a PLUS"**

**MAWSON & PROCTOR
PHARMACEUTICALS LIMITED**

Low Friar Lane, Newcastle-on-Tyne 1

Telephone 29751/7 (9 lines)

Regular sales assured
with

Shadeine

the
HOME TINT
for GREY hair



Still the best home tint for grey hair. All natural shades. Safe and harmless. Trade Prices—1 oz. 29/6 per dozen. 2 oz. 39/3 per dozen. P. Tax 50%. Retail 4/6 and 6/- per bottle respectively.

ALSO GOLDEN SHADEINE

For brightening mousey hair. Trade Price—2 oz. size 29/6 per dozen. P. Tax 50%. Retail 4/6 per bottle.

THE SHADEINE COMPANY LTD.
49 CHURCHFIELD RD., ACTON, LONDON, W.3

Over SIXTY YEARS Reputation

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Is second to None

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SHELLTOX

with DIELDRIN is a *must*
for repeated steady sales

Dieldrin in SHELLTOX is the most persistent and powerful insecticide in general use. Sprayed on walls and other surfaces SHELLTOX kills crawling and settling insects for up to 3 months (unless washed off). When used as a 'knock-down' space spray it clears a room of flying insects immediately.

SHELLTOX kills:

FLIES, MOSQUITOES, MIDGES, WASPS,
FLEAS, CARPET AND OTHER BEETLES,
SILVERFISH, CLOTHES MOTH,
WOODWORM, ANTS, COCKROACHES, ETC.



Product distributed by

The British Drug Houses Ltd.,
Graham Street, City Road, London, N.1.



Invisible under
the stocking

Jayskin

TWO-WAY-STRETCH

SURGICAL ELASTIC HOSIERY

Made in cotton or nylon to N.H.S. Specification and packed in attractive boxes.

Self measurement forms and fitting guide supplied.

Made to measure hosiery despatched by return.

WOOD BASTOW (ELASTICS) LTD.

Dove Green, Selston, Nottinghamshire and at Victoria Road, Pinxton, Notts.

Speed up Sales with this—

Ladye Jayne

Slumber Cap Stand

FREE with 2 doz. Slumber Caps



Every extra endeavour helps to keep turnover rising. Don't ignore this offer—order your Ladye Jayne Slumber Caps in this fine stand. It contains :—

1 Dozen LJ551 Slumber Caps @ 21/6 dozen (Retail 2/11)

1 Dozen LJ560 Slumber Caps @ 32/- dozen (Retail 4/6)

53.6 per 2 dozen set

From your Wholesaler NOW

INTRODUCING

NUCTA

Bonnie

SHAMPOO



The new formula liquid cream shampoo, packed for individual use in an entirely new type of plastic container—an upstanding tubette gaily coloured with a tartan motif and representing a definite step forward as regards both pack and product.

CREAMY AND FRAGRANT
SUITABLE FOR ALL TYPES OF HAIR

RETAIL PRICE
PER TUBETTE 9d

The formula for NUCTA BONNIE SHAMPOO is balanced to give a rich creamy lather and emolliency, with no trace of harsh after-effects. It contains special ingredients to ensure extra cleansing and tonic action on the scalp resulting in added beauty for the hair. No other shampoo leaves hair so soft, lustrous and sparkling.

The tubettes of NUCTA BONNIE SHAMPOO are so attractive that when displayed on the counter, customers cannot resist reaching for them in admiration—and at 9d. per tubette, it's a sure sale every time. Packed in cartons of 3 dozen.

TRADE PRICE 5/2 PER DOZEN (PLUS PURCHASE TAX).

AVAILABLE FROM YOUR USUAL WHOLESALER OR DIRECT FROM THE MANUFACTURERS OF NUCTA PRODUCTS

STEWART, GOODALL & DUNLOP LTD., 121a PRINCES STREET, EDINBURGH, SCOTLAND

MAX FACTOR'S

great new lipstick advertising campaign breaking March 12th *means colossal support for you!*

IN THE PRESS! These fashion-wise advertisements, announcing Max Factor's Top Trio of lipstick fashion colours will be seen by the readers of all the leading women's fashion magazines!



ON TELEVISION! A shot from Max Factor's elegant Top Trio commercial—to be transmitted at peak-viewing hours over the entire television network—bringing lipstick fashion to women viewers throughout the country!



AND ON DISPLAY! Max Factor has produced colourful show material to put you in the front line of fashion! Two sizes of showcards and a counter-dispenser—to tempt every fashion-conscious woman customer to try the new colours!



MAX FACTOR presents his
TOP TRIO
of new lipstick fashion colours for 1961

ORCHID
CORALCOFFEE
AMBERPINK
IVORY

3

times
right!

Right for fashion!

These soft-toned new lipstick colours have been specially created by Max Factor to echo the softness of the latest fashions!

Right for your customers!

Women everywhere—from teenagers to the over-sixties—take interest in fashion. They'll want these soft new lipstick colours to complete their fashion-plan!

Right for you!

With Max Factor's Top Trio in stock, your shop will be a beauty centre and a fashion house! There will be three times the interest, three times the profit in these new lipstick fashion colours!

High-fashion means higher profits with
MAX FACTOR'S TOP TRIO



*for fine chemicals
especially :*

ASPIRIN B.P. "FRE-FLO"

SALICYLIC ACID B.P.

SODIUM SALICYLATE B.P.

SALOL B.P.C.

VANILLIN 100%

H. W. GRAESSER-THOMAS LIMITED

**49 LEADENHALL STREET,
LONDON, E.C.3**

TELEPHONES: ROYAL 3011-6111



**DIAMOND ENCRUSTED—
RUSTLESS, EVERLASTING**

Diamond Deb
NAIL DRESSER

Diamond and Sapphire crystals permanently embedded in pure Nickel make the finest manicure files in the world. Not affected by soaps, solvents, boiling liquids, or mild acids

prevents

**NAIL SPLITTING
& NAIL PEELING**

Gem encrusted surface files so cleanly and smoothly that the nail layers cannot split and cause nail peeling
4 in. 12/6 6 in. 15/- 8 in. 17/6

Obtainable from

OSBORNE-GARRETT & CO. LTD.

LONDON · BIRMINGHAM · GLASGOW · MANCHESTER

**"RELIANCE"
NATURAL SPONGES**



**Natural
Deep Sea Sponges**

To display a natural deep sea sponge is to sell it—because discriminating customers know that it is softer and kinder to the skin, and more lasting and more hygienic than any substitute—as well as holding three times as much water.

Cresswell's offer the best of the sponge crop. Please write for our price lists, and when in the West End of London a visit to make your own selection is welcomed.

GRESSWELL BROS. SPONGES

3-9, EARLHAM STREET, CAMBRIDGE CIRCUS, LONDON, W.C.2
TELEPHONE TEMple Bar 5331

LIVER PREPARATIONS

OVER 50 YEARS EXPERIENCE
IN THE MANUFACTURE OF HIGH
GRADE LIVER PRODUCTS

**REFINED OR CRUDE
WITH VITAMIN B COMPLEX
WHOLE DRIED POWDER**

**DESICCATED N.F. X
STANDARDISED B12 CONTENT
PROTEOLYSED POWDER 1 : 100**

LIVER FRACTIONS


**EXT. HEPATIS LIQ. BP'48
INTRINSIC FACTOR c B12**

BULK OR PACKED IN FORM OF
INJECTIONS, TABLETS, CAPSULES


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GUL. 3478



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tomorrow's products... in today's test tubes

In various fields, and in liaison with industry, the Research Division of The Washington Chemical Company Ltd. is making significant advances in the production of new grades of magnesium chemicals for particular applications.

By drawing on the Company's century of experience, chemists are able to specify special grades of Pattinson's (Regd. Brand) magnesium carbonates and oxides—confident that all deliveries will maintain the same high standards of quality. From the laboratory through to production, Washington chemicals may be depended upon for absolute consistency.

THE WASHINGTON CHEMICAL CO. LTD.

member of the TURNER & NEWALL ORGANISATION WASHINGTON, COUNTY DURHAM, ENGLAND

Telephone: Washington 3333

Telegrams: Chemical, Washington Station, County Durham

LONDON: Empire House, St. Martin's le Grand, London, E.C.1

Telephone: MONarch 6898

MANCHESTER: 220/222 Corn Exchange Buildings, Cathedral Street, Manchester, 4.

Telephone: BLAckfrairs 4401

Agents throughout the world



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hair beauty PREPARATIONS
SELL ON SIGHT!

Spraying Hair Lacquer

Retails at 3/9

The finest of hair lacquers with a delightful perfume available in the new Super Spray 3 oz. polythene bottle boxed in 1 doz. units in eye-catching display outers. Refill sachets also available packed in 1 doz. outers retail at 2/3.



Egg and Lemon

CREAM SHAMPOO Retails at 3/9

24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoos, tubes 9d.; 3 individual shampoos linked together 10½d. all packed in display outers.



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An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick drying action holds the hair, removes tangles, leaves hair free from all deposits and with a beautiful lustre.



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These Fast-Selling lines are now being advertised continuously in National magazines.

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Do not
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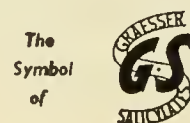
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speedy relief of headaches, colds, chills,
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For many years we have been engaged in this field of manufacture with the result that we now offer the following, all of which, in their separate ways play an increasing and important part in the alleviation of suffering

**ASPIRIN B.P.
PARACETAMOL PURE
SALICYLAMIDE PURE**



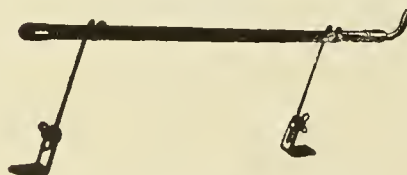
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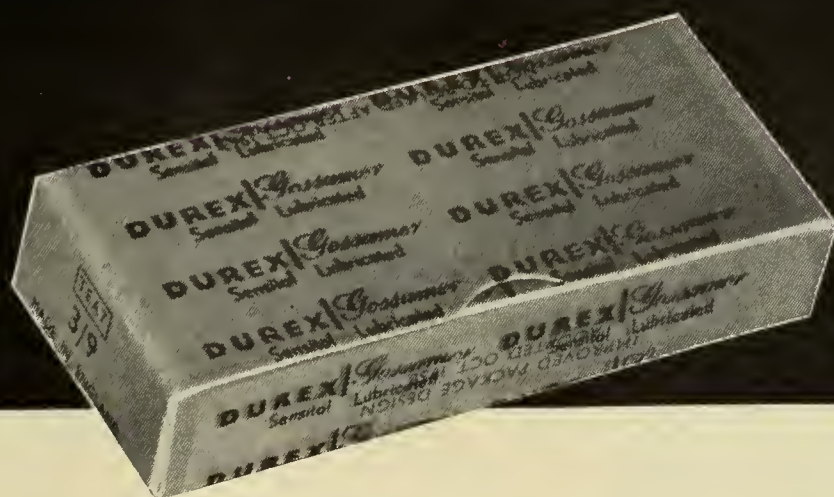
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lubricant
gives super-
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*The secret of DUREX Gossamer is Sensitol — an exclusive “non-wet”, “non-messy” lubricant discovery specially developed to increase sensitivity.



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'Lady Gay' Hair Set (lanolised)	6 oz	Retail Price	5/9d.
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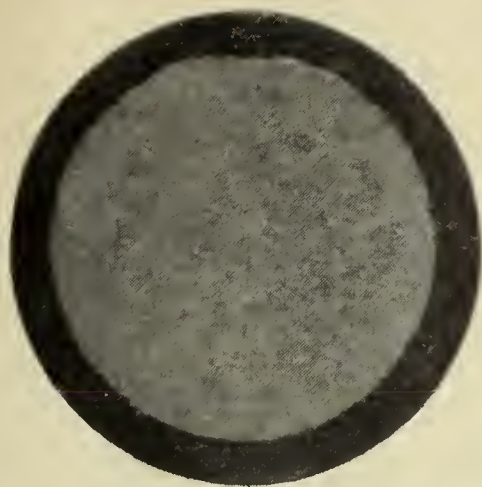
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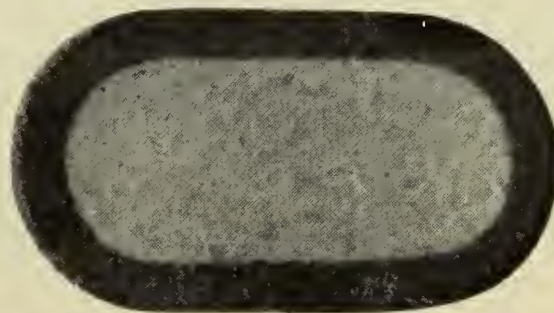
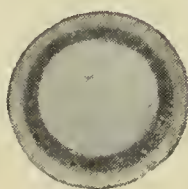
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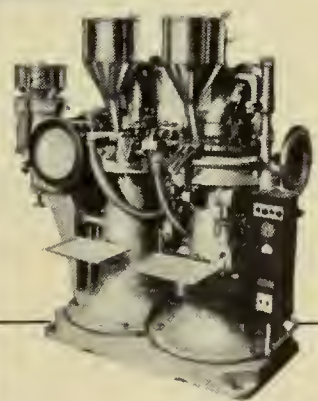


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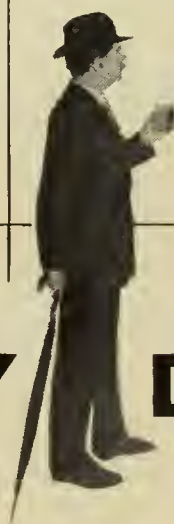


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Sales prove that the new Luxan towel meets with the requirements of modern women. Made from the softest and most hygienic materials available, comfort and confidence are assured. As if this isn't sufficient reason for the increase in demand, we must add that the newest-look Luxan pack with its really outstanding design makes "Selling" a word of the past.

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1 doz.	2	6	LUXAN GREEN ...	14 3 ...	1/7d.
1 doz.	3	12	LUXAN MAUVE ...	1 11 6 ...	3/6d.
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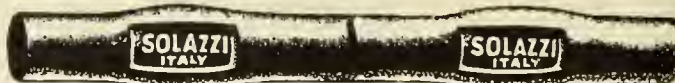
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BURTON-ON-TRENT HOSPITAL MANAGEMENT COMMITTEE, ST. MATTHEW'S HOSPITAL, BURNTWOOD, LICHFIELD

Chief Pharmacist (Category II)
Applications are invited for the above post. Previous Hospital experience not essential. Commencing salary by negotiation, based on outside experience and Whitley Council Scale. Family house available. Full particulars and names of two referees to: Group Secretary, The General Hospital, Burton-on-Trent. C 6296

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist
for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacists
Holiday relief vacancies in the Group hospitals:
17th April—6th May
22nd May—1st July
17th July—12th August
28th August—2nd September
11th September—30th September.
Salary £18 18s. a week. Applications with full details to Chief Pharmacist, Metropolitan Hospital, London, E.8. C 6318

LONG GROVE HOSPITAL, EPSOM, SURREY

Senior Pharmacist
Applications are invited for the above appointment at the above hospital. Whitley Council conditions of service. Salary £770 x £30 (1)—£800 x £35 (6)—£1,010 plus London Weighting. Written applications with the names of two referees to the Physician Superintendent. C 6323

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Assistants-in-Dispensing
Holiday relief vacancies in the Group hospitals:
8th May—20th May
12th June—24th June
3rd July—15th July
11th September—16th September.
Apothecaries' Hall Certificate desirable. Applications with full details to Chief Pharmacist, Metropolitan Hospital, London, E.8. C 6319

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist-in-Charge
Holiday relief vacancies at Mildmay Mission Hospital:
23rd May—27th May
28th August—9th September.
Salary £22 1s. a week. Applications with full details to Chief Pharmacist, Metropolitan Hospital, London, E.8. C 6320

HAMMERSMITH HOSPITAL & POST-GRADUATE MEDICAL SCHOOL, DU CANE ROAD, LONDON, W.12

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Applications are invited for the post of Deputy Chief Pharmacist at above General Post-graduate Teaching Hospital (Category V). Whitley Council salary scale and conditions, £895—£1,200 per annum plus London Allowance. Detailed applications, stating age, qualifications and experience and naming two referees to Secretary, Board of Governors, Hammersmith Hospital, Du Cane Road, London, W.12, by 11th March. C 6286

HOSPITALS FOR DISEASES OF THE CHEST

Senior Pharmacist
Applications are invited for the above post at THE LONDON CHEST HOSPITAL. Salary in accordance with the Whitley Council scales. Applications, stating age, qualifications and experience, accompanied by two testimonials, to the House Governor, London Chest Hospital, E.2. C 6305

KING GEORGE V HOSPITAL FOR DISEASES OF THE CHEST, GODALMING, SURREY

Chief Pharmacist
(Category II). Salary and conditions of service in accordance with Whitley Council scale—£895—£1,200 per annum. Apply, stating age, qualifications and experience, together with names of three referees, to Physician Superintendent. C 6321

KING EDWARD VII HOSPITAL, WINDSOR

Assistants-in-Dispensing
Two (one temporary) required. Applications with full details to Secretary. C 6299

LEWISHAM HOSPITAL, LONDON, S.E.13

Assistant-in-Dispensing
in Pharmaceutical Department. Salary within Whitley scale (£395 at age 22 rising to £535 p.a.), plus London weighting and £50 p.a. for possession of the Certificate of the Society of Apothecaries, or other recognised qualification. Applications, stating age, qualifications and experience, with names of two referees, to the Chief Pharmacist, Lewisham Hospital, Lewisham High Street, S.E.13. C 6322

MOORFIELDS EYE HOSPITAL, CITY ROAD, LONDON, E.C.1

Assistant-in-Dispensing
required for duty at City Road Branch. Salary in accordance with Whitley Council scale (£235 p.a. at age 18 rising to £565 p.a. inclusive of London Weighting plus £50 p.a. qualification allowance (P.T.B. Circular 108)). Applications to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 6311

SEAMEN'S GROUP, DREADNOUGHT SEAMEN'S HOSPITAL, GREENWICH, S.E.10

Locum Pharmacist
required from 17th July—5th August; 14th—26th August; 25th September—30th September. Weekly salary 18 guineas plus hourly rate 12/6 for two overtime sessions of two hours each week. C 555

AND

ALBERT DOCK ORTHOPAEDIC HOSPITAL, E.16

Locum Pharmacist
required from 28th August—16th September. Weekly salary £20 9s. 6d. Apply, House Governor, Dreadnought Hospital, Greenwich, S.E.10. C 554

SPRINGFIELD HOSPITAL, LONDON, S.W.17

Senior Pharmacist
required, permanent appointment. Salary £770 x £30 (1)—£800 x £35 (6)—£1,010 per annum plus London Weighting. Applications to: Group Secretary, Springfield Hospital, Bechcroft Road, London, S.W.17, giving age, qualifications, details of experience and names of two referees. C 556

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LONDON, W.C.2**

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MANAGERS****LEWIS & BURROWS LTD.**
(Multiple Retail Chemists)*offer progressive careers to
young Pharmacists*

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C 6301

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require a qualified chemist to manage one of its branches in West Africa. This is an interesting and progressive appointment for a man of energy and initiative. Commencing salary not less than £1,350 per annum depending on age and experience. Free passages, living accommodation, medical attention, etc., initial kit allowance. Contributory pension scheme. Tours of eighteen months with leave on full pay. Applications, preferably from single men under 30 years of age should be sent to the Secretary at 250 India Buildings, Liverpool 2, giving details of qualifications and experience.

C 3465

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DISPENSER (male or female) required with a sound experience of dispensing in a busy pharmacy in the Southampton area. Apply, giving details of experience, age and salary required, to Box C 3445.

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DALMAS, LTD., Leicester, wish to appoint a Representative to control established interests in the retail chemists' field in South Wales. A thorough knowledge of the sundries side is essential and residence on the territory would be required. The position carries a good basic salary and commission. A Company car is provided. Reply to: Sales Manager, 215 Charles Street, Leicester. C 3453

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C 6302

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We are proud to present Pharmacists with the opportunity of joining our outstanding representative force.

Hard work, initiative and enthusiasm will be expected, appreciated and rewarded.

If you are capable of achieving a high level performance then it is as "Mr. Geigy" that we would say your future is most fully assured.

Initially we would offer you an intensive training course covering all facets of a representative's work. The course is an integration of two vigorous departments—your own professional service department and a research-minded medical department. By the time you make your first call on a doctor you will be confident and competent as a result of the "Training Strength" supporting you at Wythenshawe.

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Vacancies are in all parts of the United Kingdom for training course starting June 5, 1961.

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C 6290

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due to further expansion have vacancies for

Medical Representatives

in the following territories

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Applications are invited from pharmacists, qualified Medical Auxiliaries and others with a good pharmaceutical or medical background.

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Women pharmacists are eligible for these posts. Those who are interested and would like to know more about medical representation should write to us when we will make arrangements for local interviews with our established women representatives.

Applications should be addressed to: The Personnel Manager, Riker Laboratories Ltd.,
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C 6298

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Write to the Personnel Manager, Lewis & Burrows Ltd., 197-215 Lyham Road, London, S.W.2.

C 6312

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2. Staffordshire
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4. Worcestershire/Shropshire

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Applications will be treated as confidential.

C 6291

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C 6307

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STOCKTAKER (resident, or prepared to reside, either in the London area or in the vicinity of Brighton) with some retail or wholesale experience (not necessarily in stocktaking itself) required by well-known firm of professional valuers; good basic salary which will be supplemented by a bonus. The position also offers excellent prospects in return for efficient service. Please write, initially, under guaranteed assurance of confidence, with brief details of career to date and stating present salary to Box C 561.**WHOLESALE** warehouse near London Bridge require female departmental assistant for chemists' sundries, toilet and surgical requisites. Five-day week. Apply Box C 6317.**WORKS MANAGER.** Fine Chemical manufacturer in the Home Counties requires a Works Manager with some years' experience. The Company operates a pension fund and profit-sharing scheme. Salary according to experience. All replies marked "Confidential" to Managing Director, Box C 6324.**OVERSEAS REPRESENTATION****IMPORTANT FRENCH** manufacturer of Pharmaceutical products, possessing in Italy:Considerable industrial manufacturing plant
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SALES PROMOTERS BUREAU

Manufacturers' Representative,

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MAURITIUS

Proposals are invited from Manufacturers of Pharmaceutical Products requiring the services of a resident Medical Representative in Mauritius. More information concerning the activities of this bureau and also Trade References will be supplied on application.

Letters should be addressed to the Manager:

Mr. Yves Gerard Heeraman,
Sales Promoters Bureau,
58 Desforges Street,
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C 3452

AGENTS WANTED**A NATIONAL SALES FORCE** selling merchandise to retail chemists for a well-known nationally advertised branded product. Full details to Box C 3417.**REPRESENTATIVES** calling on chemists and stores are required to carry as an additional line a first-class range of nylon and mesh spring hair rollers on a commission basis. Good quality products made by a leading manufacturer and backed by a first-class delivery service and highly competitive terms. Box C 6293.**SITUATIONS WANTED****RETAIL (HOME)****EXPERIENCED** dispensing assistant (male), accustomed high-class practice available for responsible position; London, Home Counties preferred. All areas considered. Wholesale replies acknowledged. Box C 3463.**KEARSLEYS PILLS** for feminine irregularity and lassitude. Over 1/9 BOX PROFIT by ordering 1 dozen 6 3 size. Bonus given on every dozen (13).**C. & G. KEARSLEY LTD.**
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C 438

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The South West Metropolitan Hospital Pharmacists Committee, on behalf of the participating Hospital Management Committees and Board of Governors of Teaching Hospitals, invites tenders for the supply of drugs to various Hospitals in the Region and to certain Teaching Hospitals in London for a period of one year from

JULY 1, 1961

The items comprise general drugs and chemicals (including glycerin, liquid and soft paraffins, malt extract, methylated spirit and soft soap), hormone preparations (including corticosteroids), vitamin preparations, ointments, injections (including radiologicals), capsules and tablets.

Applications for tender forms should be made in writing to the Contracts Officer, R. Grist, Esq., Supplies Department, Croydon Group Hospital Management Committee, Wickham House, 9A Lennard Road, Croydon, Surrey. Due date for return of tenders, March 20, 1961.

W. S. BENJAMIN,
Secretary to the Committee. C 6303

TRADE MARKS

THE TRADE MARK set out below was assigned on 8th September, 1960, by Dr. Karl Thomae, G.m.b.H., of Hindenburgstrasse 15, Biberach an der Riss, Germany, to C. H. Boehringer Sohn, KG, of Ingelheim-am-Rhein, 22b, Germany. **WITHOUT THE GOODWILL OF THE BUSINESS IN WHICH IT WAS THEN IN USE.**

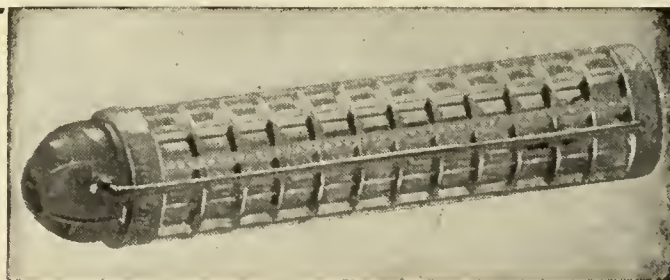
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